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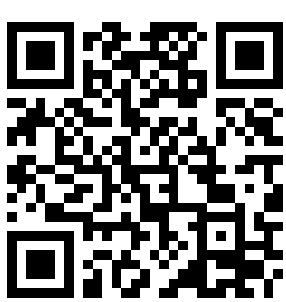
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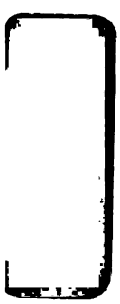
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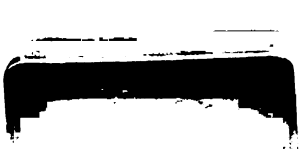
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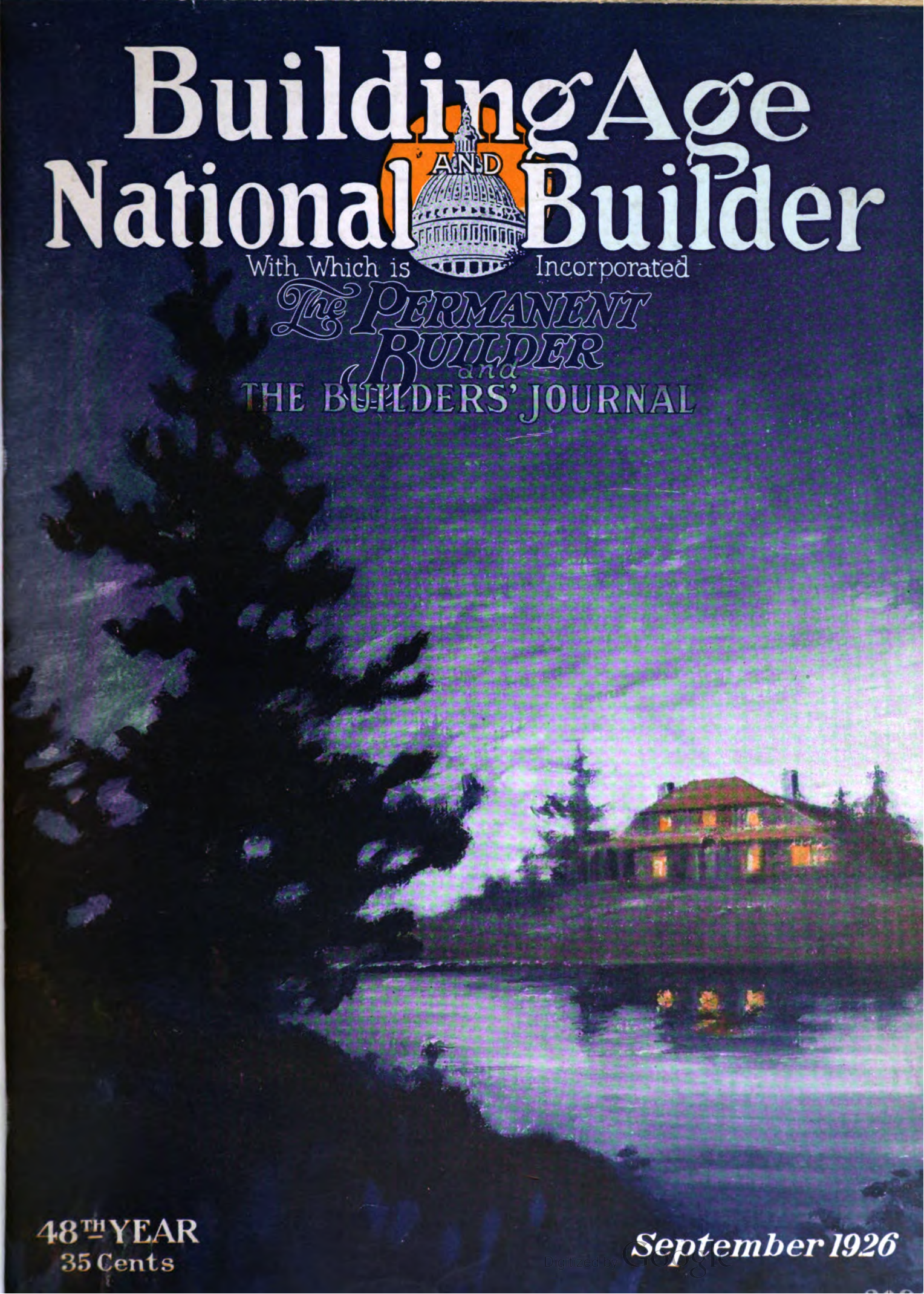
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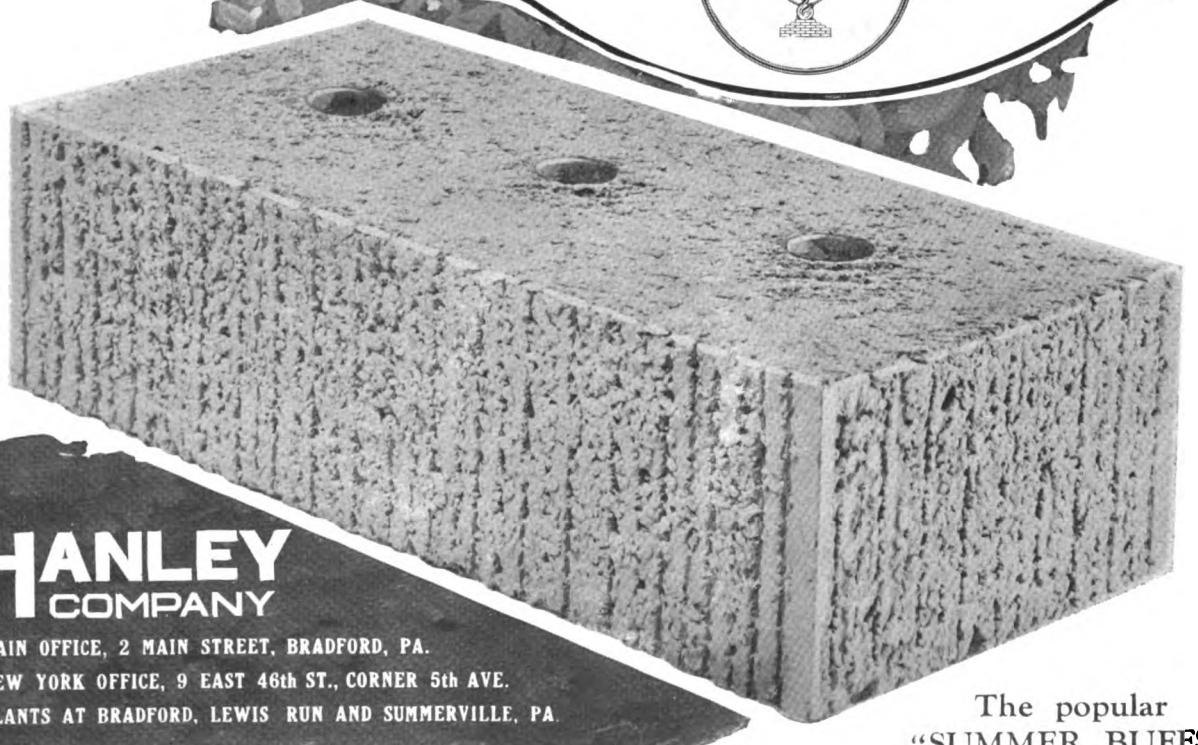


Our complete line offers to contractors and builders a wealth of selection in red, buff and grey Face Brick in either Smooth Dry Press, Smooth Wire Cut, Vertical Rug Texture or Horizontal Matt Texture, all distinctive in appearance and superior in mechanical features.

These three are: Bradford Reds, Summer Buffs, and Summer Greys.

The most modern Tunnel-Kiln plants in the industry guarantee to the builder, constant and dependable service,—and better Face Brick.





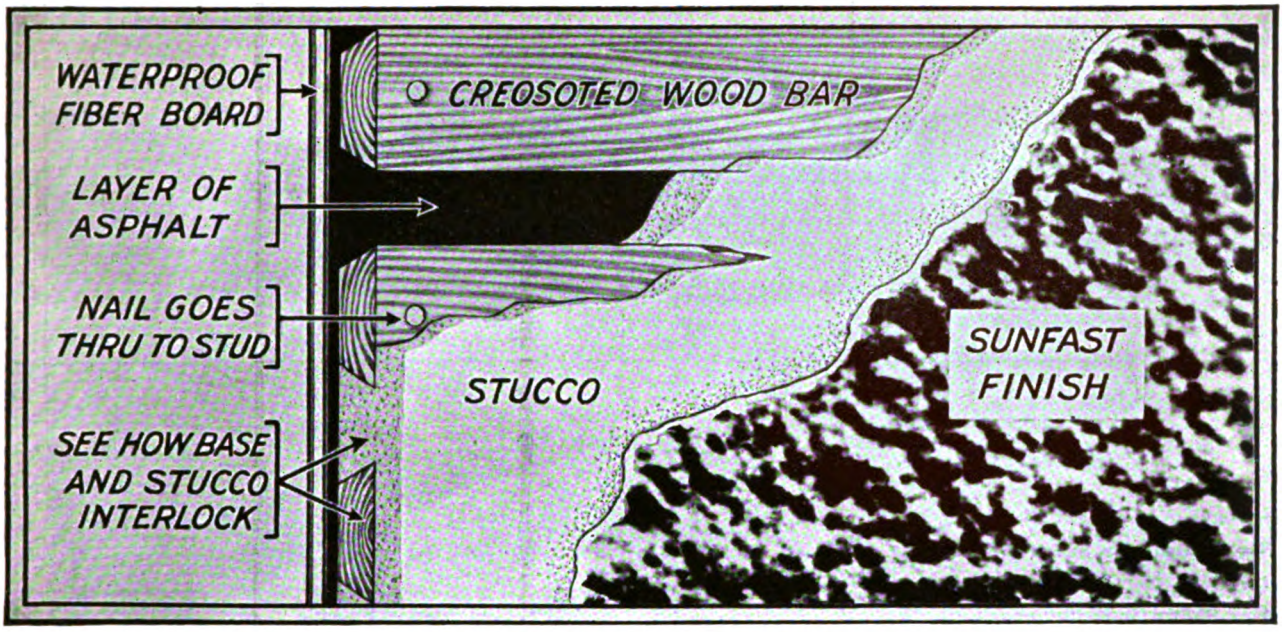
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The popular "SUMMER BUFFS"

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BUS. ADM. LIBRARY



See how the stucco keys itself into the dove-tail grooves, and is supported between the studdings. The result is a solid UNIT WALL.

25% saving in labor and materials

with this improved reinforcement

When you build with Bishopric Reinforcing Base, you save in labor and materials one-fourth the usual cost. This is possible because of the *scientific construction* of the Base itself.

Into finest quality fibre board, heavily coated with asphalt mastic, bone dry creosoted wood bars are embedded under great pressure. The wood bars are bevelled, providing dove-tail keys into which the stucco is firmly locked.

Less material is required with this reinforcing base. First, because the dove-tail construction requires less stucco or plaster; second, because the heavy fibre board prevents the stucco from going through and falling down the spacing between the inner and outer walls. This feature also makes Bishopric Base excellent for interior walls under plaster.

Less labor is required, because Bishopric Base, coming complete to the job in rolls, is quickly cut to size and can be laid by one man.

Finally, Bishopric Base may be laid direct to studdings, requiring none of the sheathing and lath used to reinforce ordinary constructions. Bishopric Base is *its own* reinforcement. Actual tests show that it will stand *far greater strains than it will ever be subjected to.*

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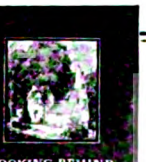
If you want the most up-to-date information on how to get excellent results with stucco *every* time, send for our new booklet, "Looking Behind the Stucco".

It is free to you. Simply sign and mail the coupon below.

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Vol. XLVIII, No. 9 — SEPTEMBER, 1926

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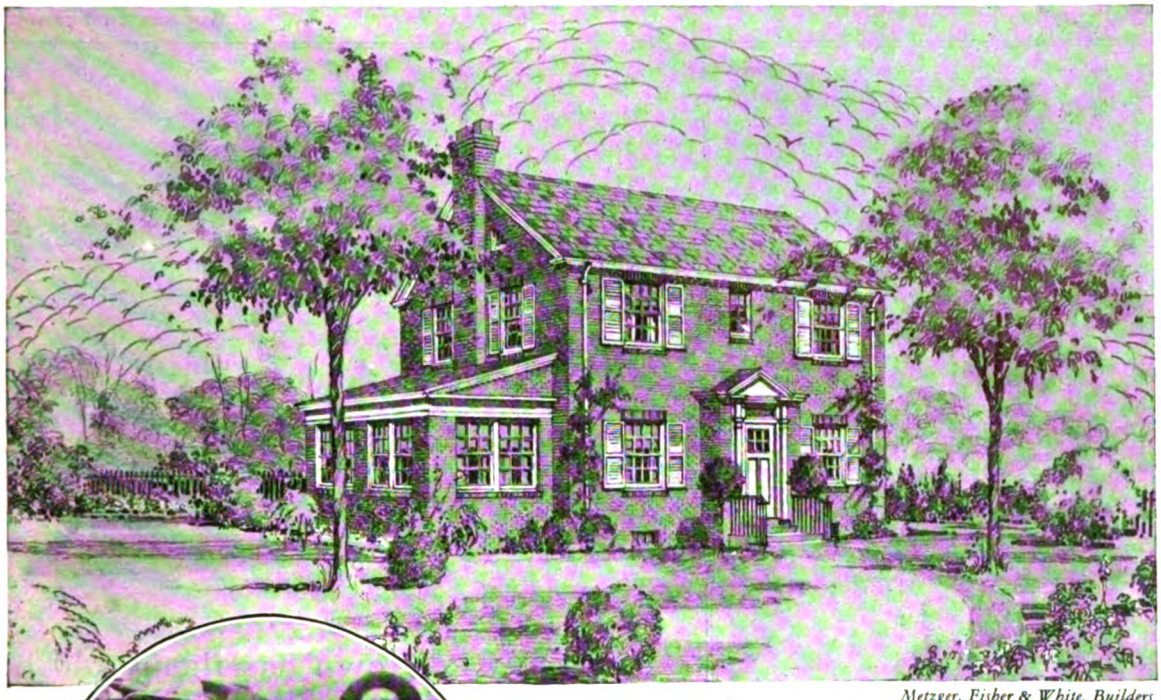
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Metzger, Fisher & White, Builders



Mrs. Herbert Hoover laying the "corner brick" of the "Better Homes in America" house at the Sesqui-Centennial International Exposition in Philadelphia.

A Face Brick House is a "Better Home"

THIS is the house built at the Sesqui-Centennial Exposition in Philadelphia for "Better Homes in America" of which Mr. Herbert Hoover is President. It is headquarters for the Girl Scouts and thereafter will remain as a *permanent* home demonstration center.

President Coolidge in a letter to Mr. Hoover says: "The American home is the foundation of our national and individual well being. Its steady improvement is, at the same time, a test of our civilization and of our ideals. * * * We need attractive, worthy, permanent homes that lighten the burden of housekeeping. We need homes in which home life can reach its finest levels, and in which can be reared happy children and upright citizens."

Build of Face Brick. It pays both you and your customer, because Face Brick preeminently makes the home house permanent and attractive.

Full information on Face Brick is available in these booklets:

"Story of Brick" shows modern homes and discusses comparative costs. Sent free.

"A New House for the Old" shows savings effected by veneering old houses with beautiful Face Brick. Sent free.

"A Manual of Face Brick Construction," 116 pages, a text book on the three types of Face Brick wall construction, giving the contractor all the information he needs in building Face Brick houses. Sent for one dollar.

"Face Brick Bungalow and Small House Plans," a series of 128 designs of Face Brick houses, distinctive in design, convenient in floor plan and economical to build, issued in four booklets showing 3 to 4-room houses, 5-room houses, 6-room houses and 7 to 8-room houses. The set, one dollar; single booklets, 25 cents each.

"The Home of Beauty," fifty 6-room houses selected from a nation-wide architectural competition. Sent for 50 cents.

"Two Apartment and Double House Plans," 14 attractive designs of duplex and double houses, showing 28 plans of 5 and 6-rooms each. Sent for 25 cents.

For all of the houses shown in these booklets complete working plans, specifications, etc., are available at nominal prices.

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THE AMERICAN FACE BRICK ASSOCIATION

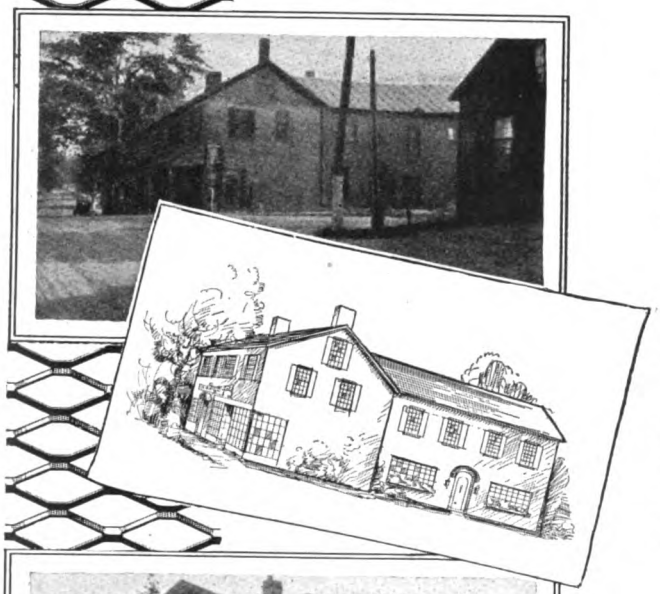
1764 Peoples Life Building · Chicago, Illinois

A·F·B·A USE FACE BRICK —it Pays

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Jobs like these everywhere







EVERY town has them—old houses which at small expense can be made modern, fire resisting and permanent by the use of Sykes Cup Lath and stucco.

Often a practical suggestion from a man like you is all that is necessary to get the work.

Whether your town is dead or booming so far as new building is concerned, here is a young gold mine for the fellow who has the intelligence and initiative to go after it.

Let us tell you more about the possibilities and the peculiar fitness of Sykes Cup Lath for this work.

USE THE COUPON

Sykes Metal Lath Company

Niles, Ohio

Yes, I'm interested. Send on your stuff.

Name .....

Work in view: Remodeling ☐ — New Construction ☐

Address .....

(B)

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Home of C. S. Cauthorne, Lake Bluff, Illinois. T. W. Jackson, Builder. White & Weber, Architects. Celotex Insulating Lumber used for sheathing and insulation in place of wood lumber and any extra insulating material

Insulation added—cost reduced

THE builders of this house saved $50.00 on the sheathing alone. Yet it is an *insulated* house and also a *stronger* house. Celotex Insulating Lumber was used in place of wood lumber and building paper as sheathing.

How T. W. Jackson built this INSULATED house for less than cost of ordinary construction

As sheathing

The Celotex boards (4 x 8 feet x approximately 7/16 inch thick) were nailed directly to the stud framing. Furring strips were nailed through the Celotex to the studs, and metal lath secured to the furring. Then the walls were stuccoed in the usual way.

This construction produces a stronger house. Tests show that Celotex is much stronger in wall sections than wood sheathing.

Under plaster

On inside walls, Celotex is used in place of lath. Plaster is applied directly to it. It *bonds* with plaster; there are no keys to break off, and the wall is free from lath marks forever.

Little or no extra cost

The use of Celotex makes houses winter-warm, economical to heat, summer-cool, quiet, strong and durable. (Important points that mean real money, if you are building to sell.)

It is the *only* effective insulation which provides great strength in wall sections and is not an extra item in the building.

Celotex is economical to apply. The broad, strong boards can be sawed and nailed just like wood lumber and with less waste in cutting and trimming.

Progressive builders are using Celotex to get more business and to help establish their reputations for building better houses. Ask your architect or lumber dealer to tell you more about Celotex. All lumber dealers can supply it. Leaders in these lines advise its use.

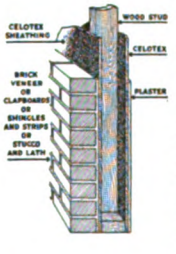
And send the coupon below for complete details that show just how Celotex is used and its many advantages to you as a builder.

THE CELOTEX COMPANY, CHICAGO, ILL.
Mills: New Orleans, La.
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(See telephone books for addresses)

LOOK AHEAD!

Leading builders and contractors agree that the practice of building heat-leaking houses is soon to end.

Five years from now, nobody will want to live in such a house. Nobody will want to buy or rent such a house. Nobody will want to build such a house.



HOW CELOTEX IS USED

Celotex gives proper insulation and provides far greater bracing strength in walls than wood lumber. ¶ In outside walls, as sheathing, it affords many times the structural strength of wood. In inside walls, under plaster, it gives a stronger wall with a better bond between Celotex and plaster than between wood lath and plaster. It eliminates lath marks. ¶ Results: more comfort, greater security, longer life, less upkeep expense.

THE CELOTEX COMPANY, Dept. T 249 B.A.9-26
645 N. Michigan Ave., Chicago, Ill.
Send for the free Building Book and Specification Book, on Celotex Standard Building Board.

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CELOTEX
INSULATING LUMBER

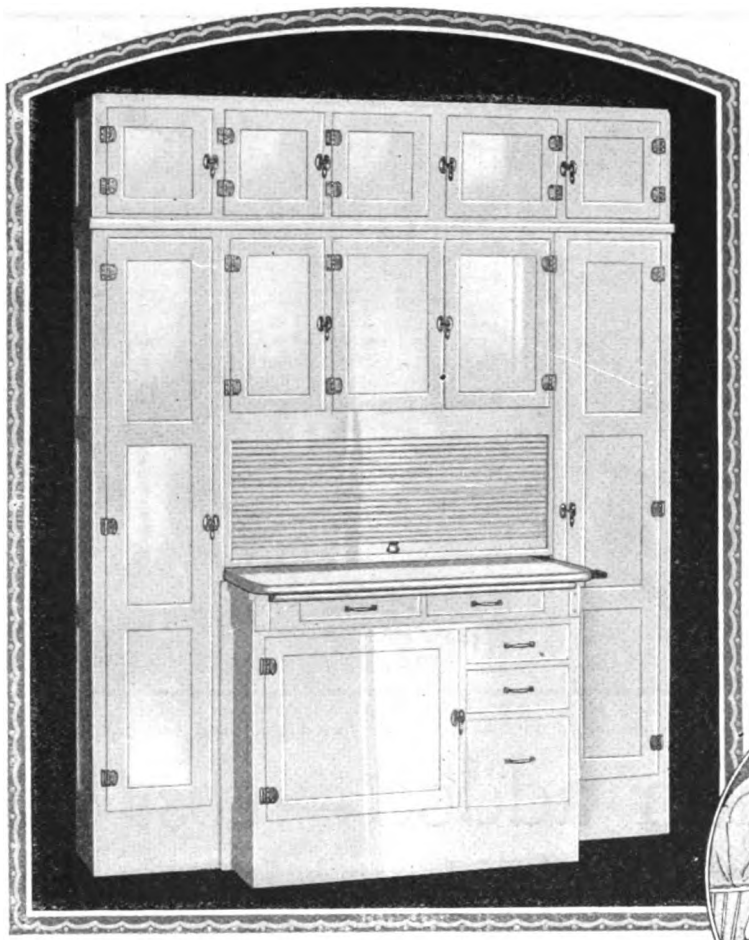
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Architects and Builders

The new line of Napanee Kitchen Units—dish cupboards, broom closets, top cupboards, refrigerators, and kitchen cabinets with exclusive "Time-saver" Table—is being widely accepted. These units afford pantry and kitchen nook convenience. Are built to quality standards which insure satisfactory service. Send coupon for catalog.

Manufacturers' Agents

There are still a few opportunities to take over the Napanee representation in very desirable localities. Write for information.



The Famous "Time-saver" Table

Takes the place of a kitchen nook. Seats three comfortably. Plenty of leg room. Slides in and out like a breadboard, drawers with it. Provides 840 square inches of extra table surface.



New kitchen equipment

which increases desirability of homes and apartments

WHETHER you want to rent or sell you want profits—and quick action. Napanee Kitchen Units, which add to the attractiveness of the kitchen, help to insure both.

A place for everything; everything in its place: That's the idea behind Napanee Kitchen Units, the last word in kitchen convenience. These units, listed and shown above, reflect in their beauty and durability the skill of master cabinetmakers and the use of the highest grade material procurable. They are built up to the same high standards as the well known Napanee Kitchen Cabinet which forms an ideal center for the unit group.

And the famous Unseen Service Factors are built into each and every Napanee Kitchen Unit, guaranteeing a lifetime of service.

The "Time-saver" Table, which is included in the cabinet, is a new and exclusive feature. It takes the place of a breakfast nook—seats three comfortably and slides in and out like a breadboard. No matter what space you want to utilize, there is a Napanee Kitchen Unit or group of units made for it.

These superior Napanee units are always moderate in price and economical to install.

Write for catalog today—use the coupon.

Coppes Bros. & Zook, Nappanee, Indiana
Builders for 50 years of the finest kitchen cabinets.

Coppes Bros. & Zook
Nappanee, Indiana

Gentlemen: Please send me your handsomely illustrated complete catalog of Napanee Kitchen Units and Kitchen Cabinets, including the "Time-saver" Table.

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Address .....B. A9

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DUTCH KITCHENET

Built Like Fine Furniture

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Wherein Plasta-Saver is "Different"

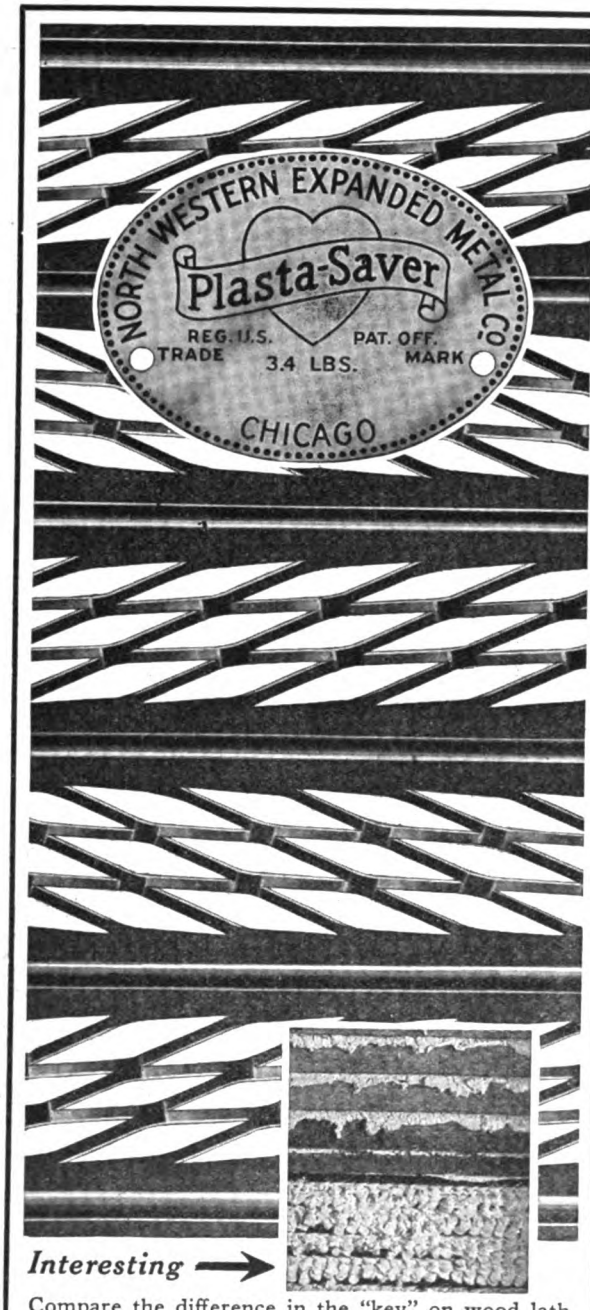
More Economical

Plastering on the 1/8" PLASTA-SAVER Metal Lath costs hardly more than on wood lath or plaster board—hence this *steel* base can be used in low-priced construction.

Savings Explained

(1) Its stiffness and easier working qualities enable the plasterer to get greater coverage and "double back" immediately.

(2) Saves Mortar.



Interesting →

Compare the difference in the "key" on wood lath (top) with that on Plasta-Saver (bottom).

Samples and Circulars FREE

Does This Mean "Skimped" Construction?

No. Ample mortar passes through to provide the proper key and embedment of steel, but there are no "droppings"—no *waste*.

Are There "Imitations?"

Yes. To avoid disappointment, therefore, be sure that the lath you buy or specify has three "diamonds" between each 1/8" flat rib (spaced 1 2/10" apart). Also see that the tin PLASTA-SAVER tag shown above is on every bundle.

NORTH WESTERN EXPANDED METAL CO.
1204 Old Colony Bldg.
CHICAGO

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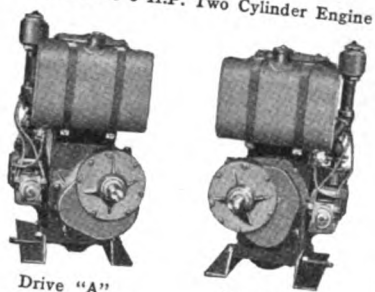
The Mixer's Master

THE business end of a 5S Mixer must be a steady operating power unit, when *eighty-five yards* of concrete is handled in a day's time.

And that is what Mr. Robert Butke's, (Omaha, Nebr.) superintendent claims for their Novo UF, 3-6 H.P. two cylinder Timken Roller Bearing Engine. *It's the Mixer's Master.*

The Unit Flexible

Novo UF 3-6 H.P. Two Cylinder Engine



Drive "A" Drive "B"

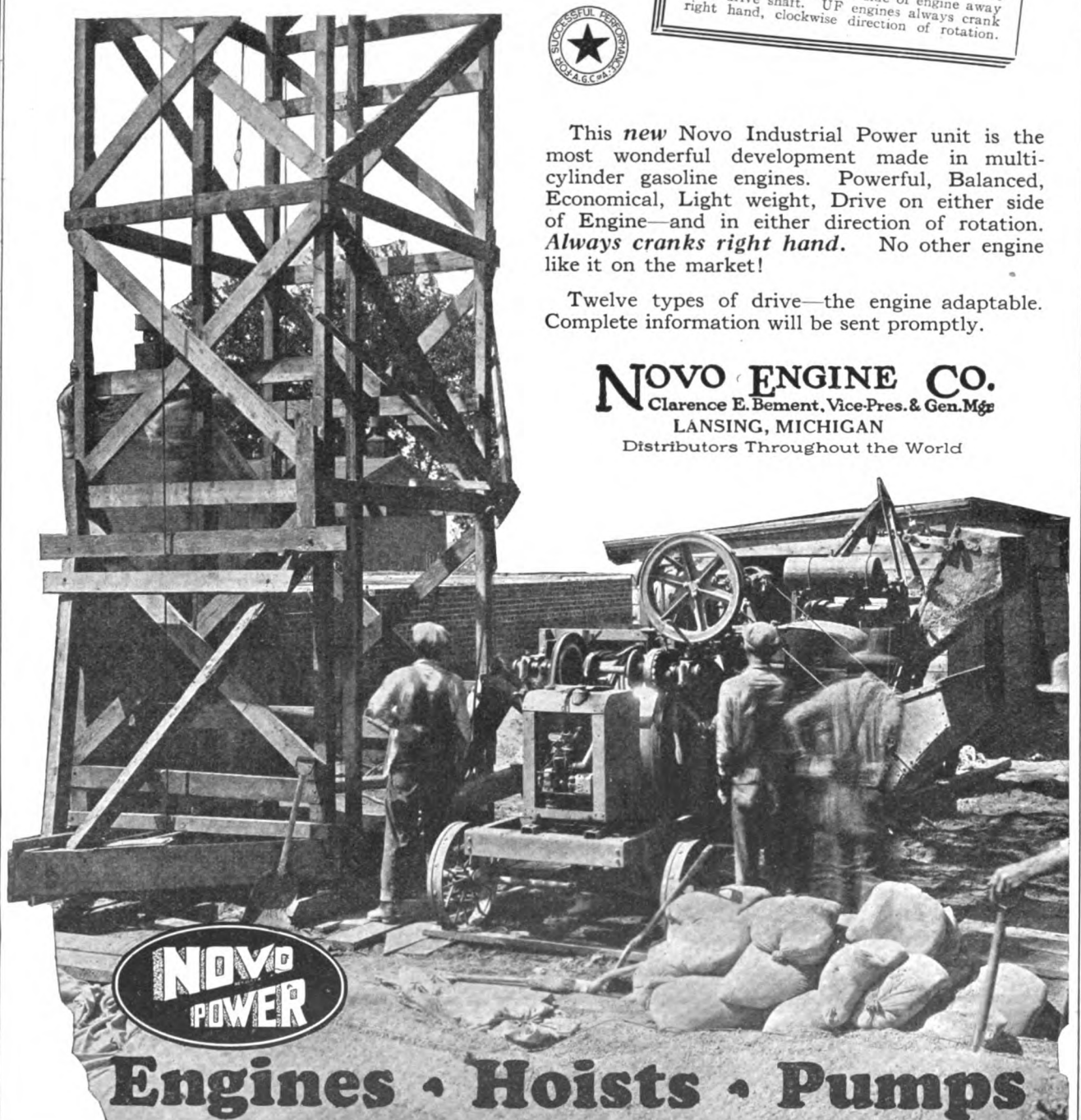
Novo UF, 3-6 H.P. two cylinder engines built in either of two types of drive: "A" and "B" shown above. Note that carburetor, magneto and governor are on the side of engine away from drive shaft. UF engines always crank right hand, clockwise direction of rotation.

SUCCESSFUL PERFORMANCE A.G.C. of A.

This *new* Novo Industrial Power unit is the most wonderful development made in multi-cylinder gasoline engines. Powerful, Balanced, Economical, Light weight, Drive on either side of Engine—and in either direction of rotation. ***Always cranks right hand.*** No other engine like it on the market!

Twelve types of drive—the engine adaptable. Complete information will be sent promptly.

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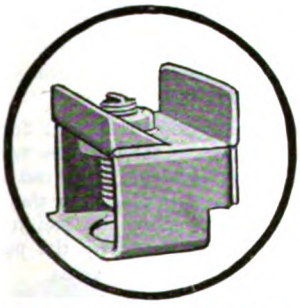
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zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction zouri key-set store front construction



That small shop in the middle of the block can be made a thing of beauty and so attractive that it will simply compel passers-by to look

Zouri Key-Set Store Front Construction



The Reinforcing Bracket, a heavy, rigid brace, prevents distortion during setting. It supports the copper gutter as the indirect pressure of the Zouri Key draws the moulding int alignment

IT'S completed! Your merchant client stands critically viewing the store front that represents half of his advertising effort. Then is when Zouri's copper beauty, substantial and enhancing, begins to look like a profitable investment for him—and for you.

But you've known from the beginning that Zouri's safety and permanence guaranteed profit. You have been insured against loss from the time Zouri was specified. Against pressure during setting, and breakage due to wind, shocks, temperature changes, and settling, Zouri's exclusive structural features stand guard.

It is this that has won more and more contractors to Zouri during the 14 years in which it has built up the largest body of distributors in the field.

You will find our detail sheets and data book useful. Send for them.

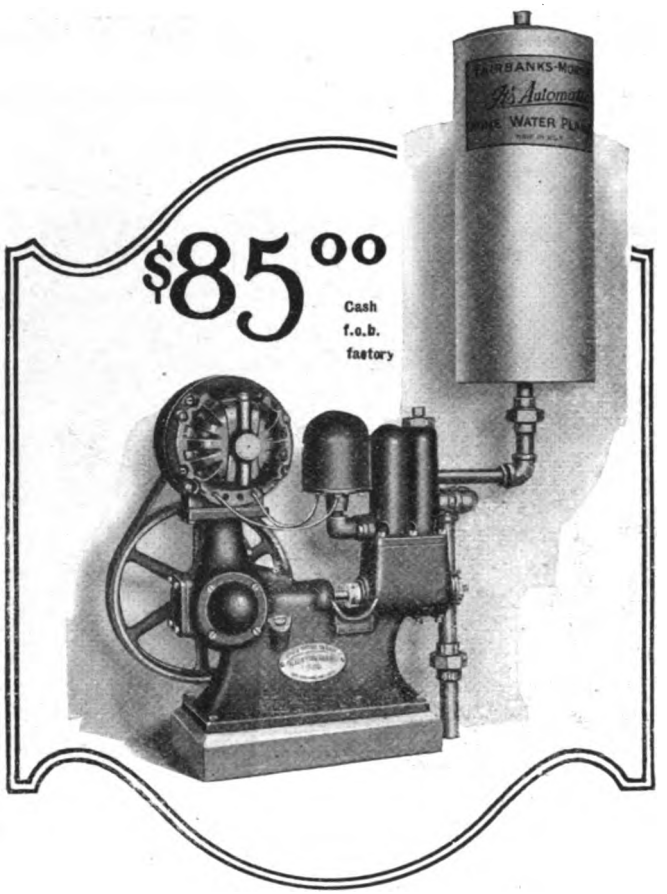
Zouri Drawn Metals Company

Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

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200-gallon per hour Fairbanks-Morse Home Water Plant, complete with 4-gallon galvanized tank.

A Leader in a Line of Leaders

From every standpoint — capacity, quality and price — the Fairbanks-Morse Home Water Plant is unquestionably the greatest value ever offered. It is a *leader* in a line of leaders. Fairbanks, Morse & Co. are recognized as the leading manufacturers of water systems for every purpose—municipal and industrial as well as domestic.

This plant is sold complete for only $85.00 cash f.o.b. factory — a price that permits you to offer your customer a *real,* big-capacity home water plant at a minimum cost. It is indicative of the other values in the complete line of Fairbanks-Morse home water systems, ranging in size from 120 to 5000 gallons per hour, either electrically or engine driven.

This plant consists of the standard Fairbanks-Morse 200-gallon automatic electric pump complete with two-pole switch and four-gallon tank. The pump has the same high-grade finish, the same speed, and the same capacity as has been furnished in connection with the self-contained tank combinations.

The four-gallon pneumatic tank of special design is heavily galvanized inside and out and is tested to 125 pounds working pressure. To avoid any strains on the pump—the tank is placed in the discharge line in such a manner that the weight of the tank and water is not supported by the pump itself.

Like all Fairbanks-Morse Products, you can use or recommend this plant with absolute confidence, as it is backed by the strong Fairbanks-Morse guaranty. Write for full particulars. Address Dept. N-9.

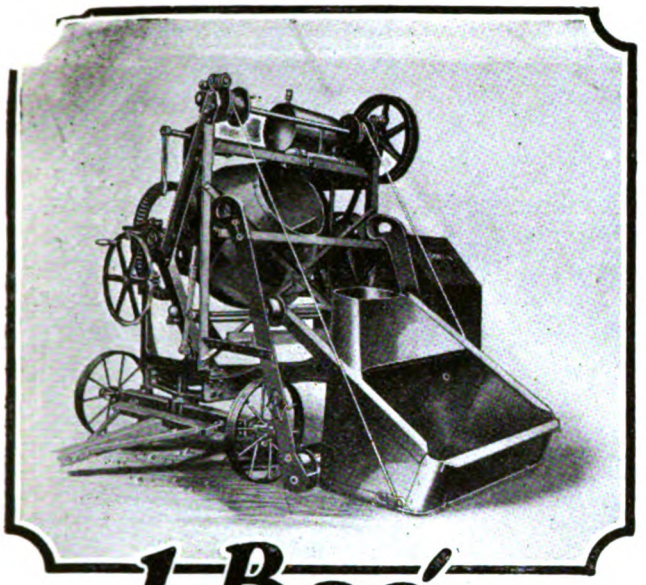
FAIRBANKS, MORSE & CO., Chicago

FAIRBANKS-MORSE
HOME WATER PLANTS

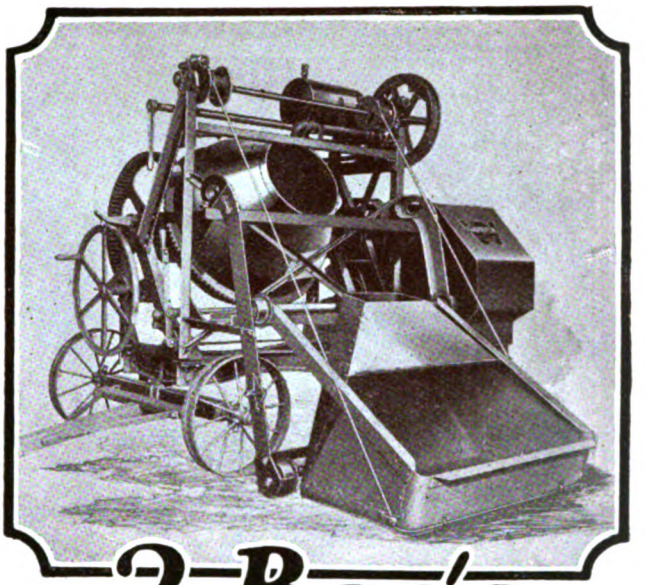
Fairbanks-Morse Products

"Every Line A Leader"

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1 Bag



2 Bags

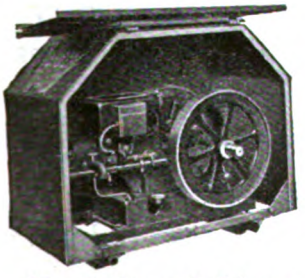
WONDER MIXERS
for the big jobs!

Wonder "7"

Here's one of the best all 'round sizes in the WONDER line. It has an approximate capacity of 10½ cu. ft. of unmixed material or 7 cu. ft. of mixed concrete. It's a speedy, sturdy one-bag machine, and is guaranteed to give many years of economical and profitable mixer service. It's extreme simplicity combined with rigid construction insure low operating costs, continuous service and long life. It will speed up your work, increase your daily output, and earn more profits for you.

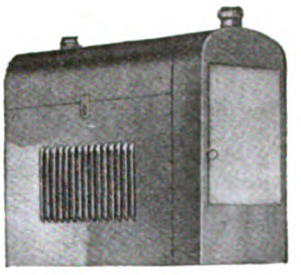
Wonder "10"

Popular demand for a dependable two-bag mixer produced this newest WONDER design. It has a capacity of 10 cubic feet of mixed concrete and will handle a 2 bag batch or proportions up to and including 1-2-5 mix. The "10" has all the WONDER features, many of them exclusive, such as the perfectly balanced mixing drum—a track type of loader with its extension advantages—a thrust screw type of loader clutch with an automatic knockout and Alemite lubrication.



The Fuller and Johnson engine is standard equipment on the WONDER "7". It's a horizontal, single cylinder, hopper cooled four cycle engine that will give dependable power at all times.

SEND today for complete information and new low prices on either of the two WONDERS pictured above or any size mixer you are interested in. Our complete catalog is Free for the asking. It illustrates the entire WONDER line—WONDER exclusive fundamental features and all 1926 improvements.



The four cylinder, Le Roi engine is furnished with the WONDER "10". It's a lightweight, heavy-duty industrial engine, built for continuous full-load service. Guaranteed absolutely.

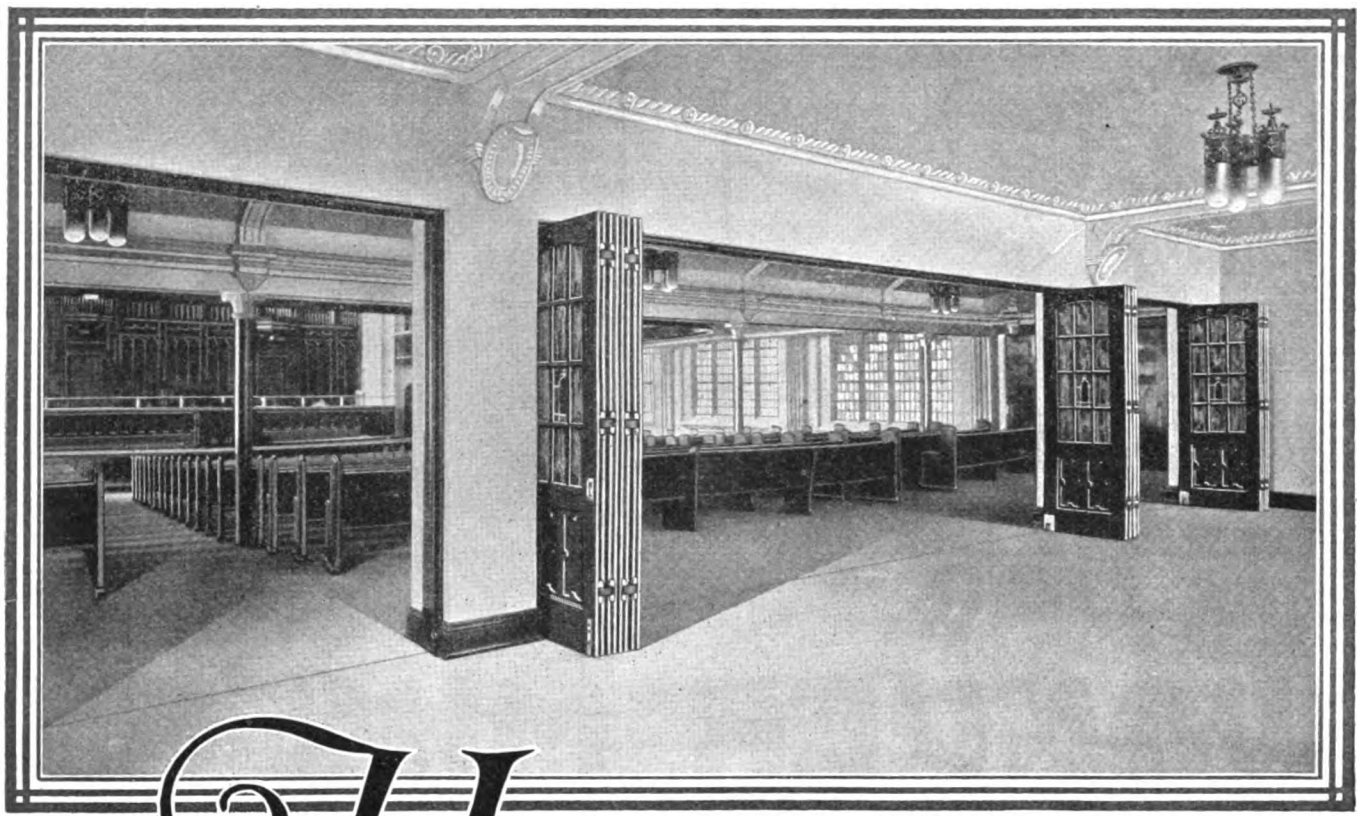
Construction Machinery Company
WATERLOO, IOWA, U.S.A.

Western Office
455 East 3d St., Los Angeles, Cal.

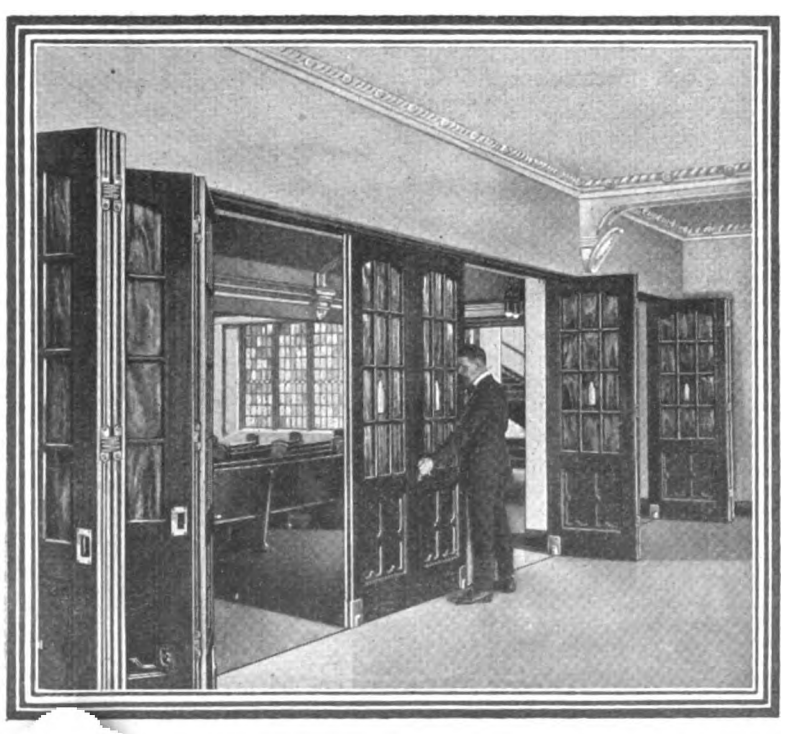
Central Office
315 W. Maryland St., Indianapolis, Ind.

Eastern Office
Widener Bldg., Philadelphia, Pa.

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Here's the best for

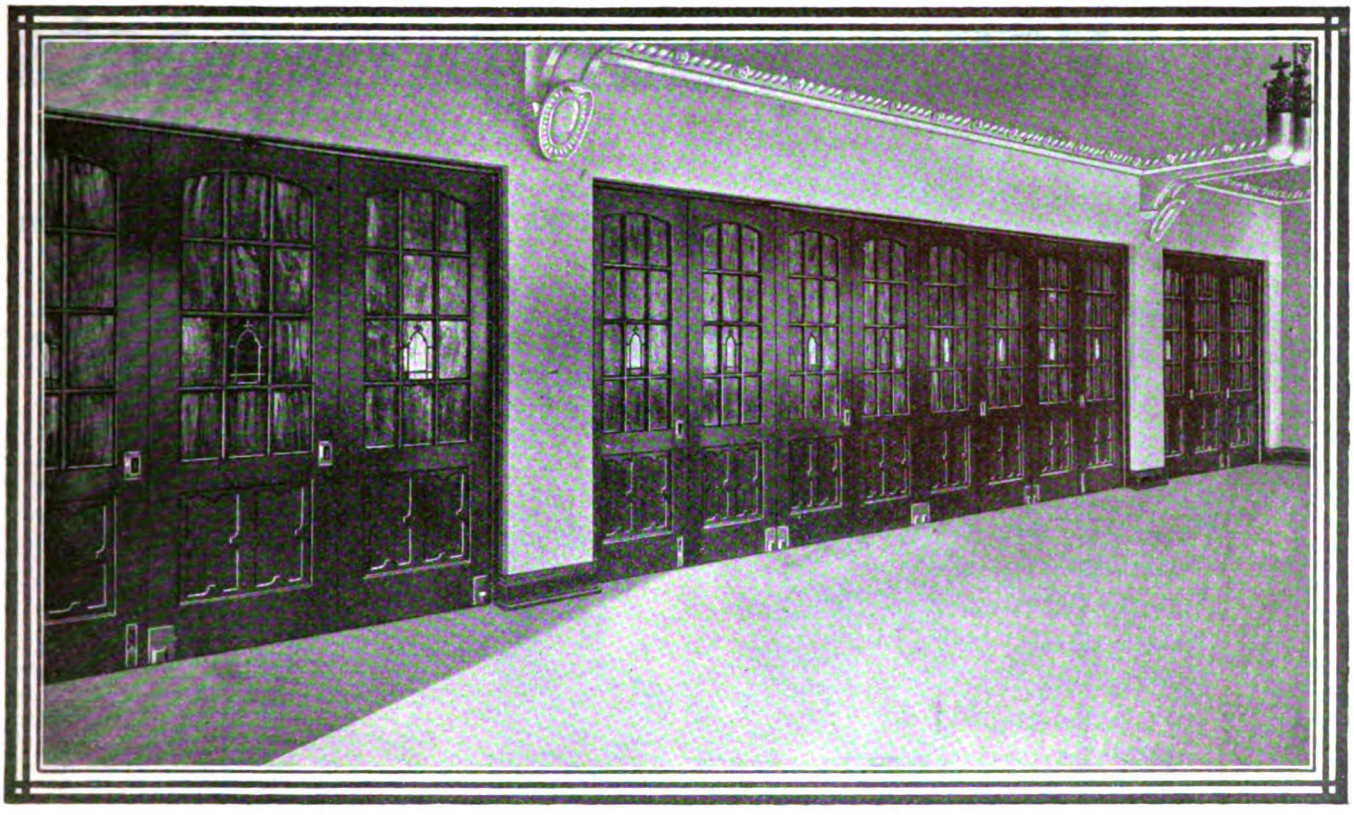


FOLDER-WAY partition door hardware is as much of an improvement over ordinary folding and sliding door equipment as the washing machine is an improvement over old-fashioned tubs and scrubbing-boards.

That is why architects and builders consult Richards-Wilcox about all doorway problems. For FoldeR-Way brings partition door principles nearer to perfection than any structural development of recent years.

Lodge rooms, churches, hotels, schools, Y. M. C. A.'s—wherever

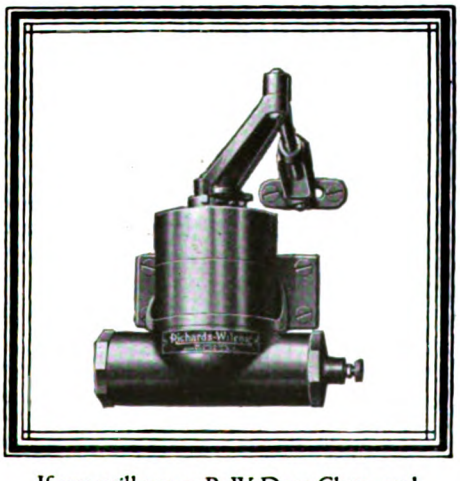
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method wide openings

people gather in large or small groups—entire walls can now be folded away out of sight noiselessly and with a minimum of effort. There is no sagging, sticking or rattling. Their performance is almost automatic. FoldeR-Way hardware meets all modern requirements. You will find FoldeR-Way installed in buildings in all parts of the United States and Canada.

Write us for full information, and do not hesitate to ask Richards-Wilcox experts to help you solve your doorway problems.



If you will try an R-W Door Closer and Check you'll find a closer without an equal. Its ease of application—no taking check apart—is an exclusive feature. Only *true* reversible check; positively liquid tight and easily adjusted—simply turn a thumb-screw valve. This beautifully finished check is built for a lifetime of trouble-free service—and that's what it delivers.

Richards-Wilcox Mfg. Co.

"A Hanger for any Door that Slides."

AURORA, ILLINOIS, U.S.A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit.

Montreal · RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. · Winnipeg

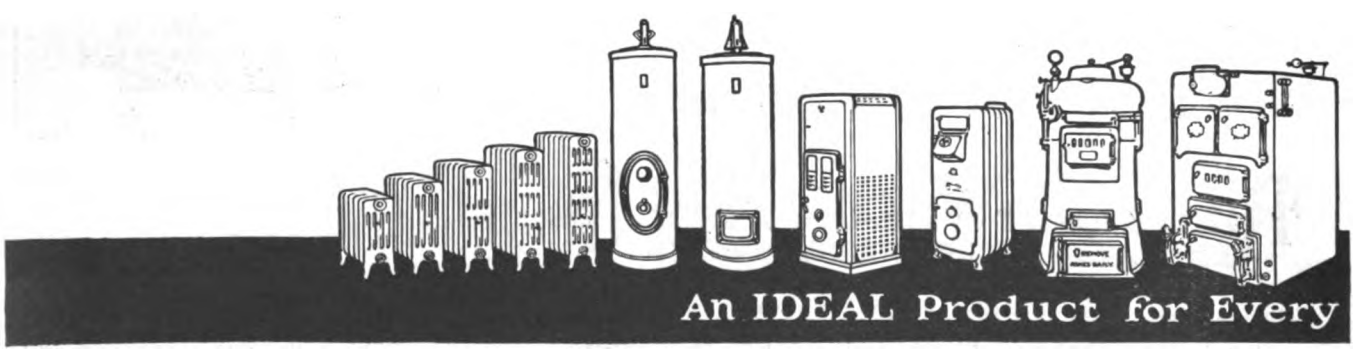
Largest and most complete line of door hardware made

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When your prospects *like this...*



ONE of the full page advertisements appearing in color this Fall.



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read advertisements

...*they'll want*

RADIATOR WARMTH

WINTER IS COMING!

And winter brings real discomfort to homes that must depend upon old-fashioned heating. But to the home that is warmed by radiators, winter has no terrors.

The people who will buy your homes know this.

They know this through the experience of their friends and also because for years the advertising of this company in magazines and newspapers has been telling the story of radiator warmth, has been spreading abroad the fact that Ideal-American Radiator Warmth is comfortable, healthful, even — and that it actually adds more than its cost to the value of any home.

This year millions of advertisements like the one on the opposite page are continuing to tell the story of how American Radiators and Ideal Boilers make a "fairy-tale of winter."

Hundreds of builders have proven this fact

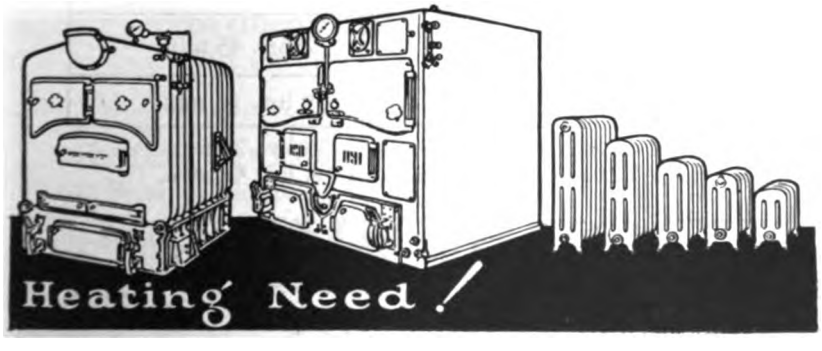
It has come to be an established fact among builders and realtors that everyone wants radiator warmth. That is why so many of them have made it a standard of practice to equip every house that they build with Ideal Boilers and American Radiators.

The coupon below will bring you authoritative book of facts.

AMERICAN RADIATOR COMPANY

Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver, San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL Boilers and AMERICAN Radiators and other products for heating, ventilating and refrigeration



AMERICAN RADIATOR COMPANY
Direct Mail Advertising Dept.—127
1807 Elmwood Ave., Buffalo, N.Y.

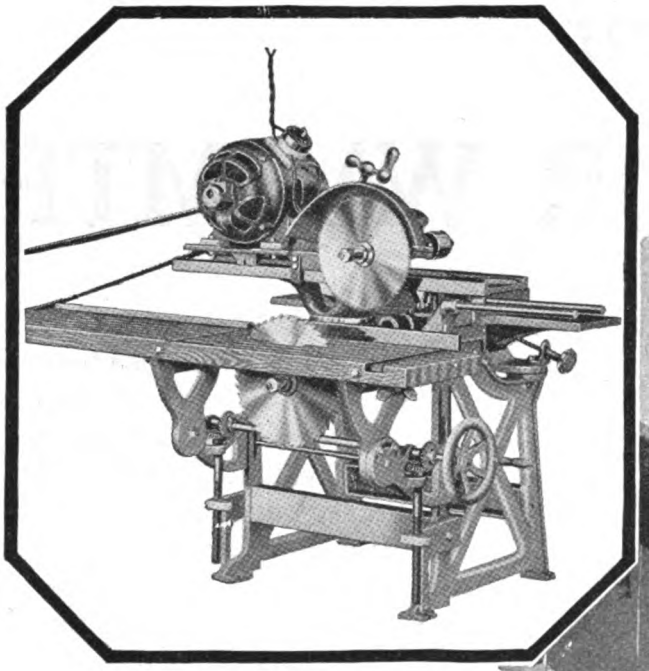
Gentlemen: Please send me your booklet, "Ideal Warmth and Comfort."

Name_____

Address _____

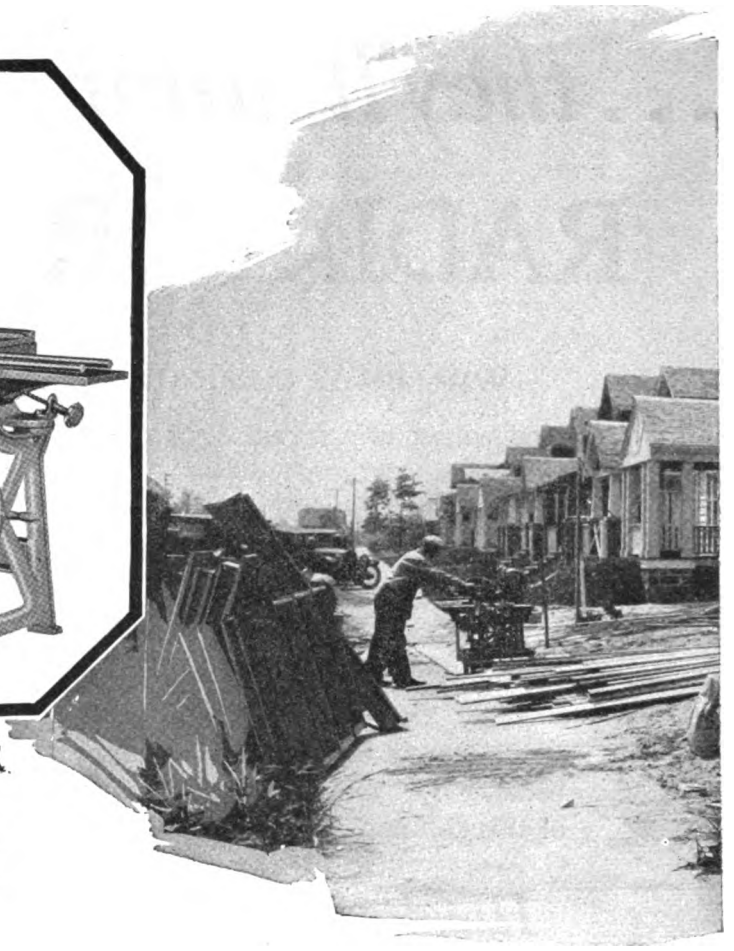
City_____ State_____

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MASTER WOODWORKER

The Master Woodworker illustrated and used on this job is the No. 12. They are also made in two larger models for job and mill work and in one smaller size.



How's This For Real Saving—

Cutting Time Saved By Master On Each House

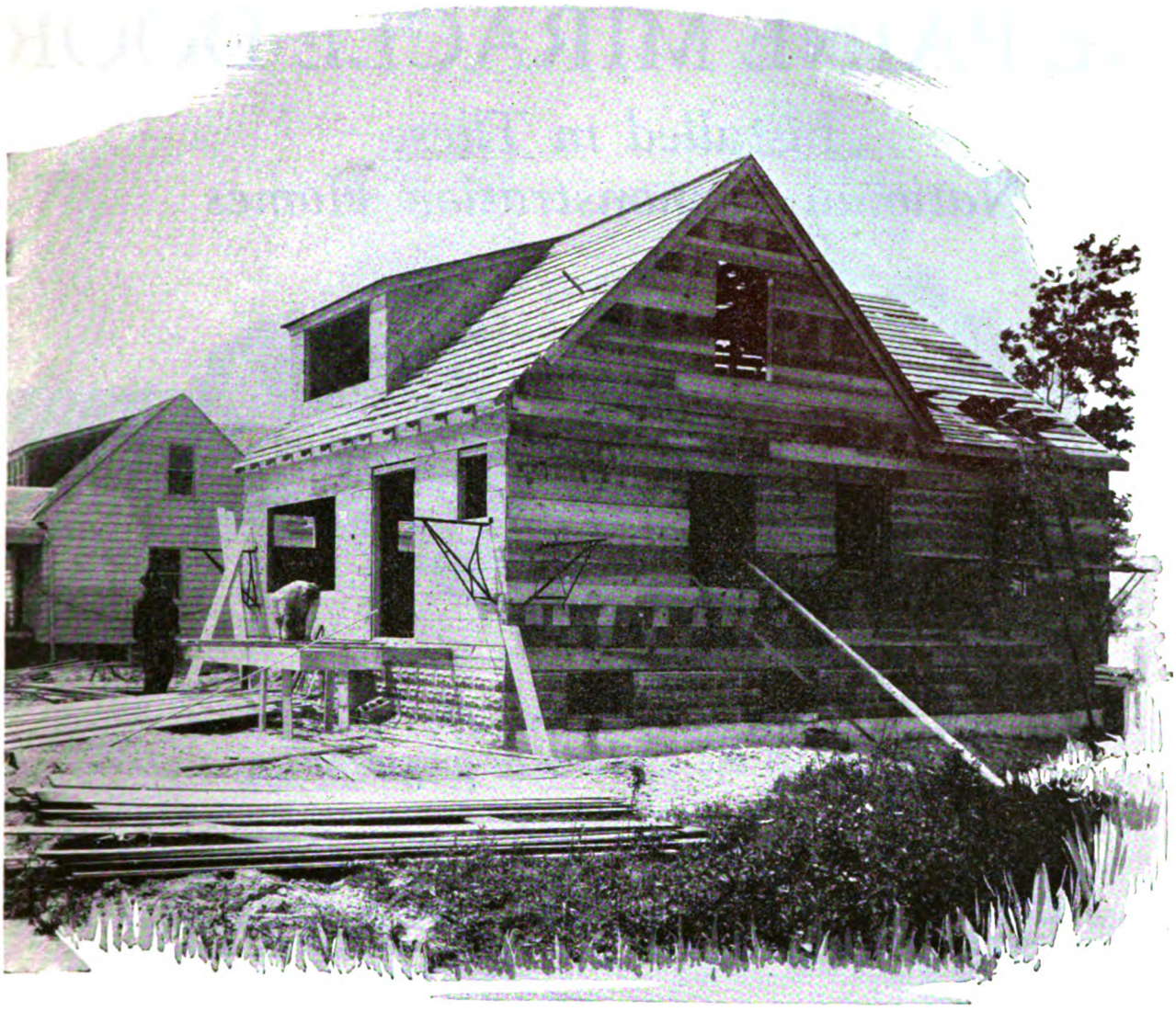
Material	Cutting Time By Hand	Cutting Time On Master	Hours Saved
185 Pcs. 2" x 4"	10 hrs.	2 hrs. 30 min.	7 hrs. 30 min.
200 Pcs. Bridging 18" long	2 hrs.	25 min.	1 hr. 35 min.
2000 Board feet Shiplap	6 hrs.	1 hr. 7 min.	4 hrs. 53 min.
25 Valley Rafters 20 Jack Rafters	2 hrs. 30 min.	50 min.	1 hr. 40 min.
250 Pcs. Cornice 16" long	2 hrs.	20 min.	1 hr. 40 min.
Basement Stairs Attic Stairs Back Steps	4 hrs. 30 min.	1 hr. 45 min.	2 hrs. 45 min.
22 Window Frames 2 Door Frames	20 hrs.	4 hrs. 42 min.	15 hrs. 18 min.

Total Time Saved on Each House 35 hrs. 21 min.
Total Time Saved on 42 Houses 1484 hrs. 42 min.

MASTER WOODWORKER
MANUFACTURING COMPANY

612 Brush Street DETROIT, MICHIGAN

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1484 Hours On One Job!

Instead of trying to describe the Master—telling what remarkable work it will do for you and how much it will save, we will just let these figures tell the story.

It is an exact record of what one Master Woodworker did for the Ideal Home Company who recently completed a block of forty-two houses in Detroit, all the materials being cut on the ground by a No. 12 Machine.

And remember you can buy a Master on an easy monthly payment plan. The machine will more than pay for itself as you use it.

MASTER WOODWORKER MANUFACTURING COMPANY
612 Brush Street, Dept. A. Detroit, Michigan

Send me your catalog of all Master Woodworker machines.

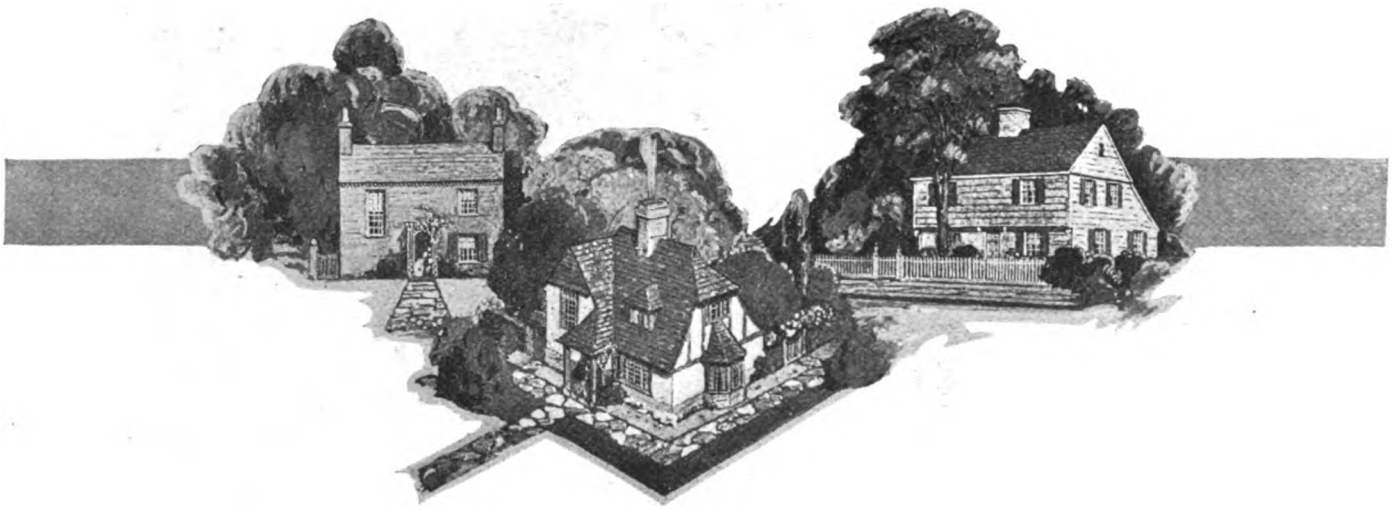
*Name*_____ *Address*_____

*City*_____ *State*_____

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THE PAINE MIRACLE DOOR

Installed in These National Demonstration Homes



Meets All the Exacting Requirements

The Miracle Door is the greatest improvement in doors ever made. Patented standards of precision in wood manufacture have made Miracle doors possible. They are made either in veneered or solid woods. These doors are modeled after the artistic, but expensive, raised panel doors. Artistry is here combined with moderate cost by the modern and economical methods used in their manufacture.

The contours of the solid sticking around the panel and the special flush moulding blend into one another to such an extent that many architects and others in the building field have said that the originators have produced an article that was not only structurally correct, but very artistic in its lines.

The Miracle Door is produced and guaranteed by an organization that operates from tree to finished product with facilities without a parallel in the woodworking industry.

Paine Miracle Doors have been endorsed and specified by architects and welcomed by the entire building industry as the popular priced door of exclusive design. They are adapted to all types of buildings, including homes, apartments, hotels, hospitals and office buildings. Over three million Miracle doors in all varieties of woods are in satisfactory use throughout the United States, Canada and foreign countries serving in all types of buildings and under all climatic conditions.

Wholesale stocks of Miracle Doors are carried in over 100 cities. If your dealer does not carry Miracle Doors write us.

A 56-page catalog showing representative installations of Miracle Doors and giving numerous complete ideas in color for finishing Miracle Doors, together with the floors, walls and woodwork in connection, will be mailed you free upon request.

Miracle Doors Cost Very Little More than Ordinary Doors

PAINE LUMBER COMPANY, Ltd.

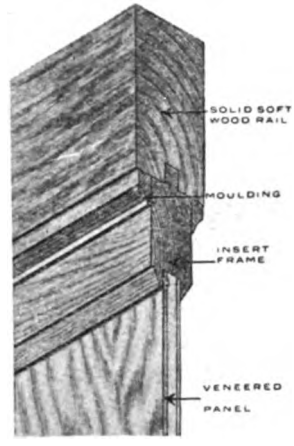
OSHKOSH, WISCONSIN

The ORIGINAL PAINE Miracle Door

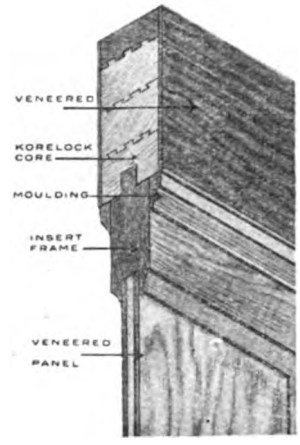
THERE IS NO EQUAL—DEMAND THE GENUINE PAINE MIRACLE DOOR

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HOW IT IS MADE



Miracle Solid Soft-wood Door



Miracle Hardwood Veneered Door

The Miracle door with the insert frame surrounding the panel and anchored in the door by a tongue and groove and strengthened by a flush moulding on two sides produces a reinforced door that is far more substantial than any other stock door.

How to Write Specifications for Paine Miracle Doors Into Your Contracts

Specifications for "Miracle" Hardwood Doors

All doors, both exterior and interior, except metal and metal covered doors, shall be "Miracle" veneered doors as manufactured by the Paine Lumber Company, Ltd., Oshkosh, Wis. The veneers to be as follows (Give here a list of kinds of woods to be used at the different parts of the building): Interior Doors shall be .... inches thick with standard eighth inch veneer and of designs shown or noted. Exterior Doors shall be .... inches thick with .... inch veneer (not less than 3/16 inches) and of designs as shown and noted. All exterior doors shall be painted with a good grade of oil paint, top and bottom, to prevent absorption of moisture.

Specifications for "Miracle" Softwood Doors

All doors both exterior and interior except metal and metal covered doors shall be "Miracle" softwood doors as manufactured by the Paine Lumber Company, Ltd., Oshkosh, Wis. These doors shall be of (mention kind of wood desired). Exterior doors .... inches thick. Interior Doors .... inches thick.

All doors shall be paneled as shown on the drawings. Sash doors shall have lights as shown.

GUARANTEE—Like all of the products of our plants, Paine "Miracle" Doors are fully guaranteed. This guarantee does not protect purchaser against defects due to damage in transit, rough handling, inferior painters' finish, or unreasonable exposure to moisture.

Miracle Doors Cost Very Little More Than Ordinary Doors

PAINE LUMBER COMPANY, Ltd.

OSHKOSH, WISCONSIN

The ORIGINAL PAINE Miracle Door

DEMAND THE GENUINE PAINE MIRACLE DOOR—THERE IS NO EQUAL

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APARTMENT AT 15 PARK AVE., NEW YORK CITY
Gray and Golden "Tapestry" Brick
Fred F. French Company, Architects

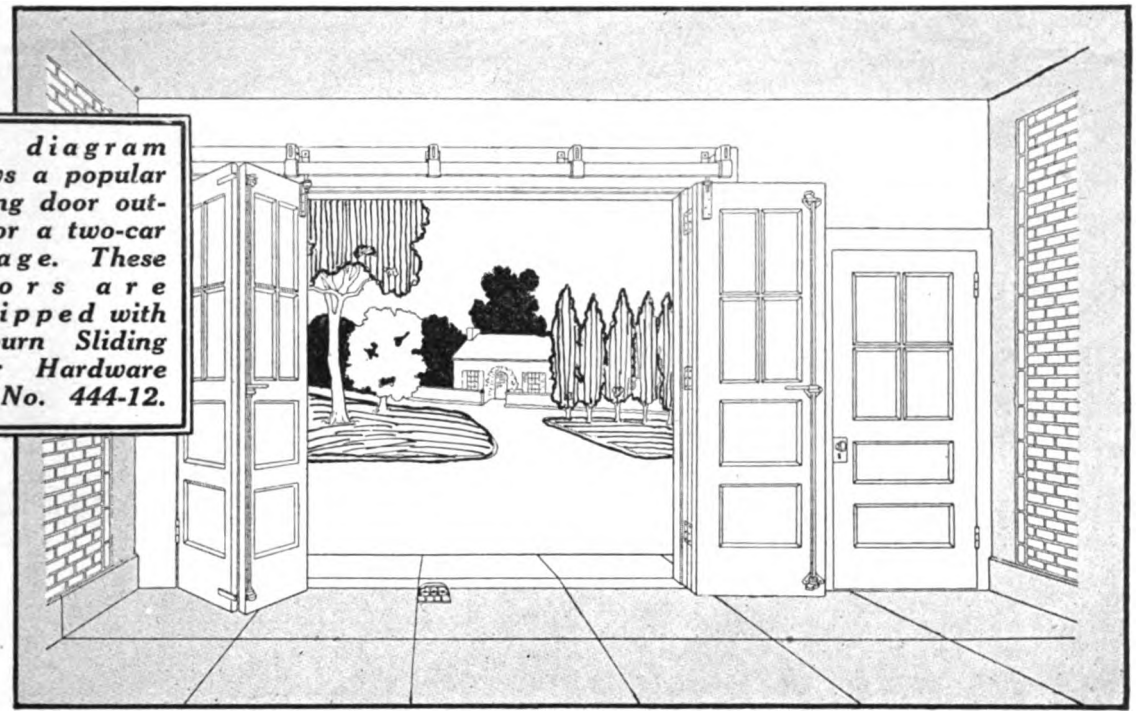
"They used Fiske Brick."

That means they used good judgment.

FISKE & COMPANY, Inc.
New York Boston Watsontown, Pa.

FISKE BRICK

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The diagram shows a popular sliding door outfit for a two-car garage. These doors are equipped with Corburn Sliding Door Hardware Set No. 444-12.

Definite reasons why garage doors
equipped with Coburn Sliding Door Hardware

roll open-glide shut

for years without attention

"Design, construction, and the reputation of the maker—the determining factors in the selection of every item that goes into my specifications."

THE COBURN TRACK is of the 'round-trough" type. It was invented by Coburn and is the strongest and most rigid type of inclosed track that can be made. In addition to being stronger the round troughs center the trolley wheels. This reduces friction and practically eliminates door wobble.

COBURN BRACKETS are the only cast Iron brackets made. They are twice as strong and more rigid than the wrought steel brackets used by other manufacturers. This extra strength and rigidity keeps the track in alignment longer and is another definite reason why Coburn Sliding Door Hardware gives lasting satisfaction.

All COBURN HANGERS, designed for use on garage doors, are made with cast iron wheels; case hardened, cold rolled steel stud and bearings; drop forged steel Pendant and stamped steel Petticoat. No other garage door hanger in the country has such construction. This construction explains why Coburn Hardware assures trouble-free, smoothly operating doors for a lifetime.

Garage doors equipped with Coburn Sliding Door Hardware roll-open—glide shut for years without attention because of these features of Coburn design and construction. And *only* Coburn Hardware has *all* of these features.

Assurance that any Coburn Hardware you specify or use will measure up to the Coburn standard is found in the reputation of the Company. Established in 1888, the Coburn Company has, in its nearly forty years of existence, built a sound reputation for the uniform quality of all its products.

Use Coburn Hardware on your next garage. Send for the valuable sliding door reference book described to the left.

The Coburn Trolley Track Mfg. Co., Dept. G-3, Holyoke, Mass. Branches: New York, Boston, Philadelphia, Chicago.



Valuable Sliding Door Reference Book Free to Architects and Builders

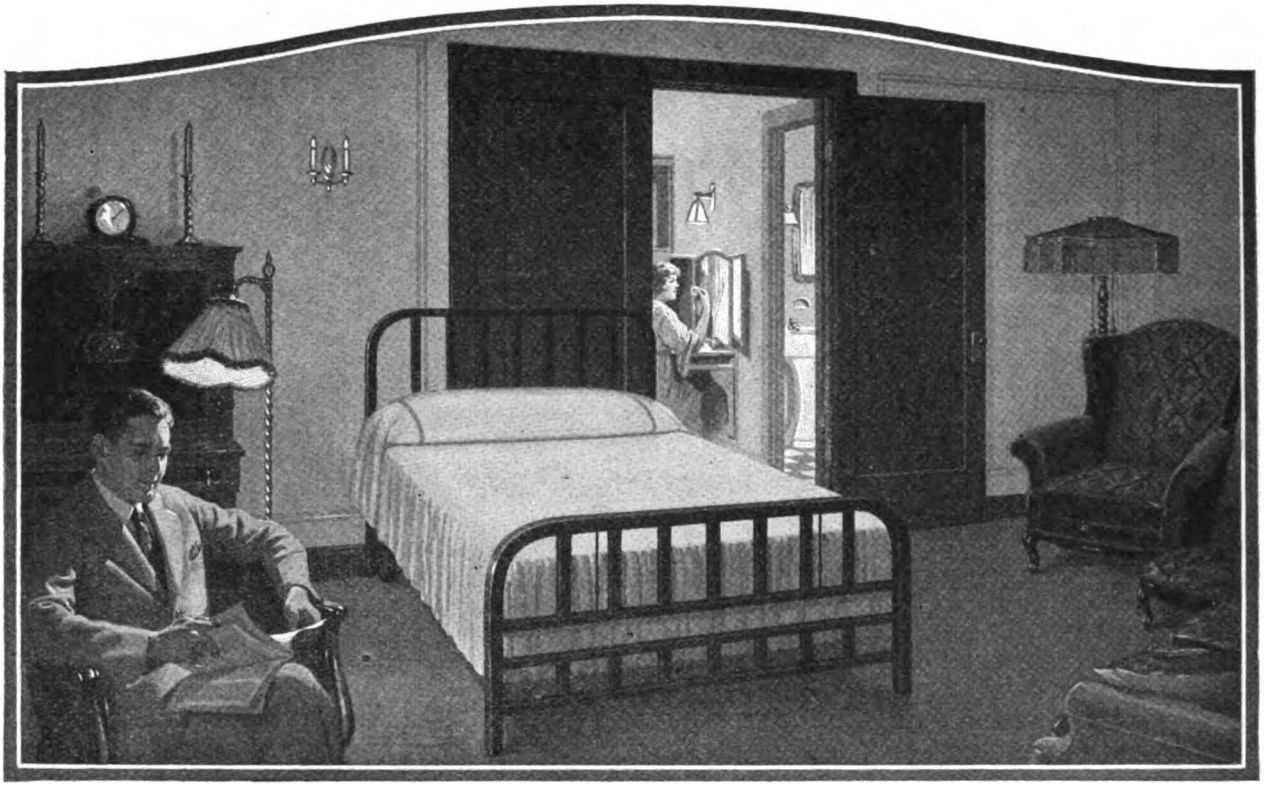
COMPLETE and definite data on every size and type of sliding door is contained in our new Catalog No. 140. By consulting this Catalog an architect or builder can decide definitely on the best type of sliding door to use in any opening—from china closet to warehouse. The Catalog also contains complete data on the amount and type of hardware required in every case. Because of its reference value this book is worthy of a place in every architect's and builder's file. The coupon will bring you your copy promptly.

COBURN
SLIDING DOOR HARDWARE
INVENTORS AND MAKERS OF PRESENT TYPE SLIDING DOOR HARDWARE SINCE 1888

COBURN TROLLEY TRACK MFG. CO.
Dept. G-3, Holyoke, Mass.
Kindly send a copy of your new Catalog No. 140 to:

Name .....
Street .....
City ..... *State* .....

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Here's a Plan That Saves Floor Space and Money

With this new Holmes Concealed Bed (Model 47), and our exclusive method of installation, you can have a pivot bed entirely concealed in the dressing room, and yet have clear passage through 2'6" door to dressing room and bath, whether the bed is in the closet or in sleeping position in the living room. The bed is concealed behind the other door entirely.

This installation enables you to plan a complete unit—living room, bed room, dressing room and bath, in surprisingly small space—in reality a home within a home.

You will be surprised to know the small space required for this complete unit and the small door space necessary for a full-size bed. You will be amazed how economically and satisfactorily this new Holmes Plan works out.

Write for Floor Plan and Complete Details

DISTRIBUTORS WANTED FOR OPEN TERRITORY

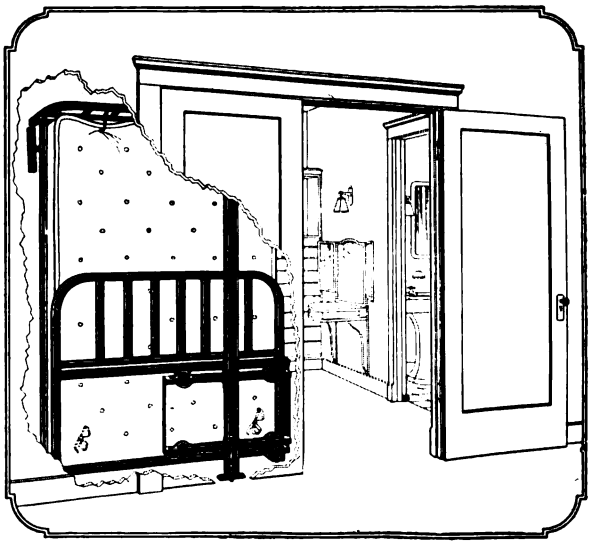


Illustration shows how bed slides out of way on ball-bearing carriage, when in closet.

HOLMES *concealed* BEDS

HOLMES DISAPPEARING BED COMPANY, *Manufacturers*, 16 Madison Street, Woodstock, Illinois
CONCEALED BED CORPORATION, 58 East Washington Street, Dept. 816, Chicago, Illinois
Distributors for MARSHALL & STEARNS CO., HOLMES DISAPPEARING BED CO.

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Residence, Thos J. Usher, Birmingham, Mich.,
C. E. Reichle, Architect

Beautiful Windows Do Sell Houses

They are as important in the sale of a house as show windows in the sale of merchandise.

Their outside beauty and distinction attracts many prospects who would ignore the common-place house. And their tone and charm adds appreciation to every interior detail.

Crittall Standardized Casements give all the quality and workmanship of Crittall custom built types at a cost that is practical for your most moderately priced jobs. Their quality is instantly obvious. And as a natural center of attention, they speak for the quality of the entire house.

Made in both inward and outward opening types, Crittall Standardized Casements are *guaranteed* weathertight without the use of weather strips.

Illustrated catalog giving types and sizes will be sent upon request. Screen details are also shown.

Every detail of these windows expresses finished care and workmanship. The hardware is of solid bronze. Government standard, strongly built for lifetime service. Handles are of graceful design, equipped with a concealed spring which takes up wear for years, preventing looseness and rattling. Their quality is so obvious it is impressive even to those with little knowledge of steel windows.

CRITTALL
Standardized
Casements

CRITTALL CASEMENT WINDOW COMPANY, *Manufacturers*
10957 HEARN AVENUE, DETROIT, MICHIGAN

Digitized by Google

HORN-WATER-PROOFINGS



Listen to What This Brick Says

"I'M the average brick, no better and no worse.

"Like all such bricks, I'm porous and always thirsty for water or dampness.

"Put me in a pail of water and I'll absorb half my bulk in water.

"That's why brick houses are damp, unless my face is washed with Dehydratine No. 2, and the joints are pointed with Vulcatex.

"The cost is but little in comparison **to the much it does.**"

$25
Will Exterior Damp-Proof the Average Brick House

$30
More Will Water and Damp-Proof the Cellar

$15
Additional Both Damp and Air-Proofs the Windows

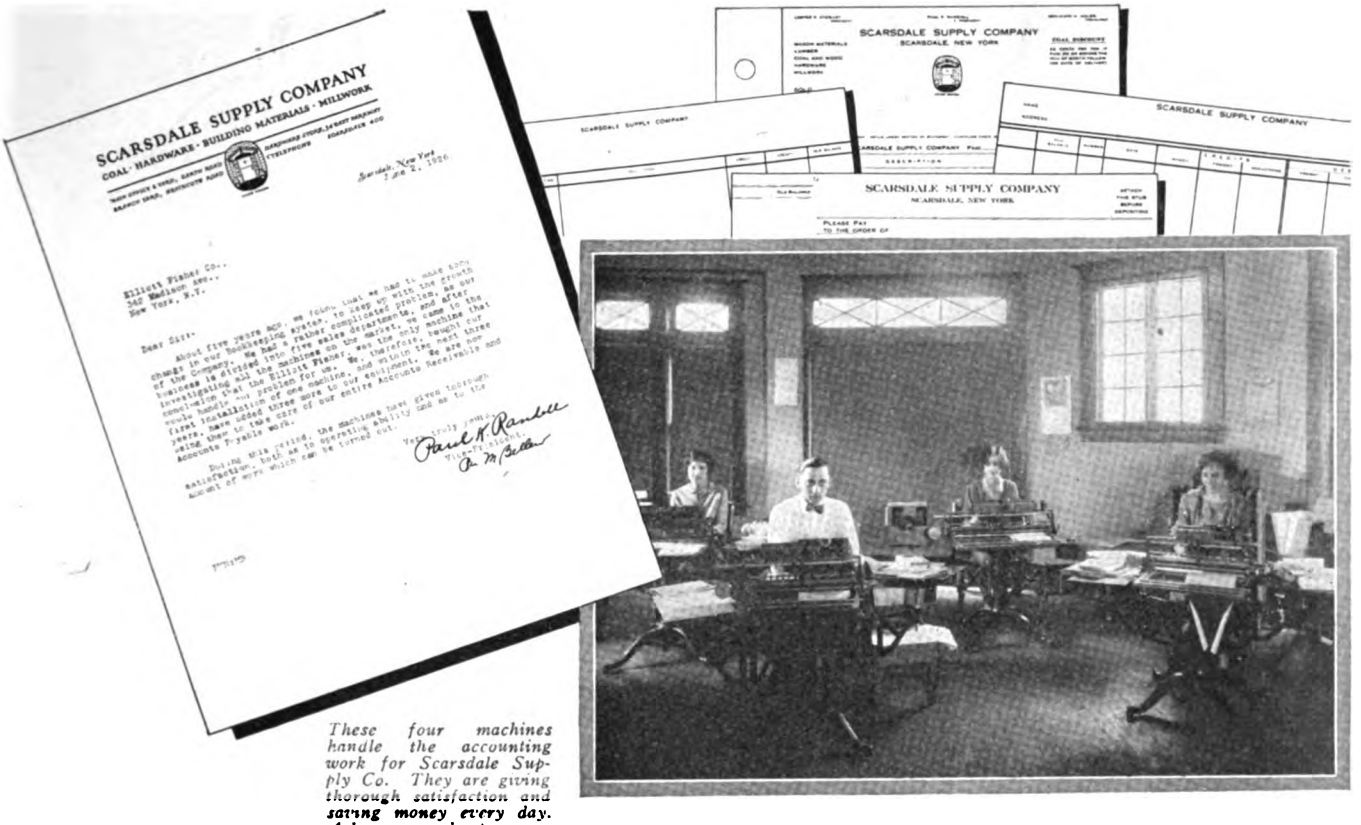
No skilled workmen needed.

We'll tell you what to use and how to use it.

If your dealer hasn't it, we'll ship direct.

A. C. Horn Company LONG ISLAND CITY, N. Y.
139 HORN BUILDING

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These four machines handle the accounting work for Scarsdale Supply Co. They are giving thorough satisfaction and saving money every day. Ask us about your problem.

After Scarsdale Supply Company tried them all—

they found that only Elliott-Fisher could handle their accounting work correctly.

Elliott-Fisher

AUTOMATIC ELECTRIC

NEW
THE AUTOMATIC-ELECTRIC

To the mechanically perfect Elliott-Fisher machine has been added—electricity. All the exclusive Elliott-Fisher features have been retained—power now does what hands once did. Just write—Elliott-Fisher does the rest—just right.

WITH the growth of the Scarsdale Supply Company came bookkeeping complications. They made a thorough search of the market for a system that could handle their accounts. Investigation proved to them that Elliott-Fisher accounting machines could best do the work.

Since 1921 they have added three units to their original installation. Elliott-Fisher is now taking care of every phase of the accounts receivable and accounts payable ledgers.

Through its ability to combine several tasks into one, Elliott-Fisher speeds up office routine. On Accounts Receivable it writes all details, posts the statement, ledger and journal, furnishing mechanical proof of accuracy—all in one operation. On Accounts Payable it produces, at one time, completed records, including the purchase journal, vendor's account or remittance advice, in triplicate.

Elliott - Fisher does other things just as well as it handles accounts. It keeps cost and stock records—accurate—up to the minute. It keeps your books in balance—every day. This means prompt trial balances and prompt statement mailings at the end of the month.

Investigate Elliott-Fisher. Let us show you how it can save you money, right in your own business. We shall be glad to send you a copy of a booklet we have prepared. It contains information of real interest to every builder who would like to run his business at a greater margin of profit. Mail the coupon now.

WHY?

ELLIOTT-FISHER COMPANY
342 Madison Avenue,
New York City.

Gentlemen:

Please send me a copy of your booklet "Why?" I expect to be told how I can save money on our accounting work.

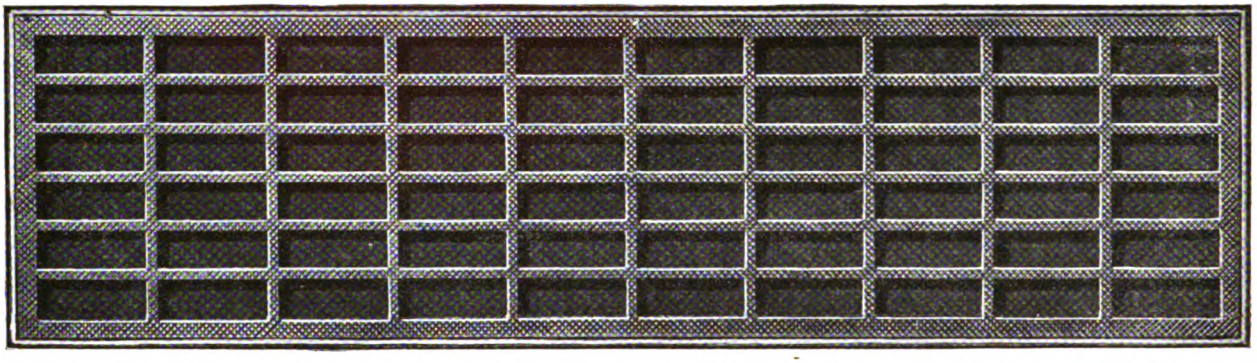
Name.....

Street.....

City..... State.....

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Cold Facts On T&B STYLE "C" COBBLE Cold Air Face



One . . . The design permits the largest free air opening consistent with strength, safety and appearance.

Two . . . Being of cast iron it has the desirable depth to the cross barrings so obviously missing in stamped steel faces.

Three . . . The rolled edge and narrow rim assure a snug, even, easy setting without recessing.

Four . . . The finish—Tanbo Antique—harmonizes well with all color schemes, therefore is suitable for any room.

Five . . . Wear comes only on the "Tips" of the cobbles—the finish lasts indefinitely.

Six . . . The advantages of T & B Style "C" Cobble Cold Air Face are apparent.

Seven . . . As this style face is not attached in any way, it is easily removed to allow a complete cleaning of the cold air box.

Style 80 Cobble Register Face matches style "C" Cobble Cold Air Face.

TUTTLE & BAILEY MFG CO.

Makers of Registers and Grilles for 80 Years

441 LEXINGTON AVENUE
NEW YORK CITY

36 Portland St., Boston
704 East 18th St., Kansas City
1123-29 W. 37th St., Chicago
Bridgeburg, Ontario, Canada

TUTTLE & BAILEY MFG. CO.
441 Lexington Ave., New York City BA

Gentlemen:

Kindly send full information regarding Tuttle & Bailey Style "C" Cobble Cold Air Face – also Style 80 Cobble Register Face.

Name _____

Address _____

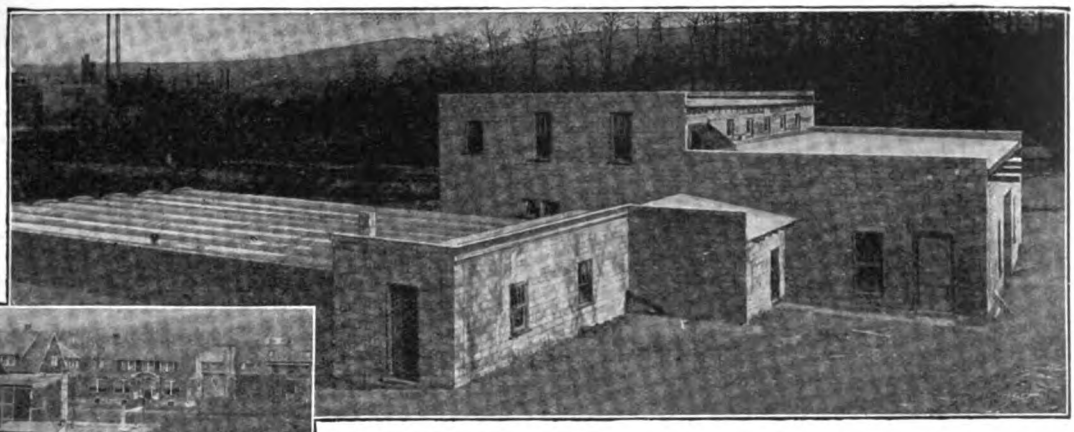
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"HOW YOU CAN WIN MANUFACTURING INDEPENDENCE"

—Told by Over 350 Successful Duntile Manufacturers—



Frank A. Lind and brother launched the Altoona (Pa.) Duntile Products Company with little capital and immense faith. Their courage paid big dividends, for in 18 months their profits turned a $3,500 investment into a $30,000 business.





Join This Prosperous Nation-Wide Group of Alert Men

Lind Brothers' success is realistically shown by the above pictures. From their temporary plant, little more than a shed, earnings resulted which in 18 months paid for the splendid factory designed for 8 complete production units. Wouldn't you like to own such a business?





Like many other successful contractors, Wm. A. Hummel and Wm. B. Hillebrand saw their opportunity in Duntile. Today the wheels are humming in their Toledo, Ohio, Duntile Plant, earning big profits for these partners. An album of their Duntile buildings would show some of the finest structures in Toledo.

Architects and Contractors Insistence Upon Duntile Calls for More Alert Men to Join This Nation-Wide Organization.

Duntile—the perfected, all-purpose masonry unit—has reached out and captured the markets that other building units can't touch. It has done so on the strength of its benefits and economies—because it actually builds better buildings cheaper. The hundreds of Duntile manufacturers enjoy an independence not equalled by any other business in the building realm. More Duntile Plants are needed. Men of ambition are needed to own and manage them. The big earnings you can make, the definite assurance of your success, and the ease with which you can enter this profitable business is convincingly told in a most interesting book called "Basic Facts." This same book has been the passport to manufacturing independence for over 350 men from all walks in life. Send coupon for copy—today!



Duntile Gave Mr. Lyons a $50,000 Business

Mr. W. J. Lyons, of Norwalk, Conn., is one of the many former contractors now making a double profit through Duntile. In his modern plant is made the Duntile he uses for his own contracting business. Mr. Lyons—in a short time—has seen his small investment grow to fifteen times the original amount—all because of Duntile profits.

You have exactly the same opportunity as Mr. Lyons and 350 others. You can equal their records. "Basic Facts" tells you.

Mail the Coupon

MAIL—TODAY—
the COUPON to

W. E. Dunn Mfg. Co.
700 W. 23d Street
Holland, Michigan



So complete and so valuable is the information given in this free book that it has been the gateway to independence and prosperity for hundreds of men. Let this interesting book tell YOU the story of Duntile. Mail coupon for free copy.

Show Me

through your book, "Basic Facts," how average ability and some capital wins manufacturing independence for those suppyling Duntile in each community. Also show me how I can manufacture Duntile in a plant of my own at a profit of 30% to 60%.

Name .....

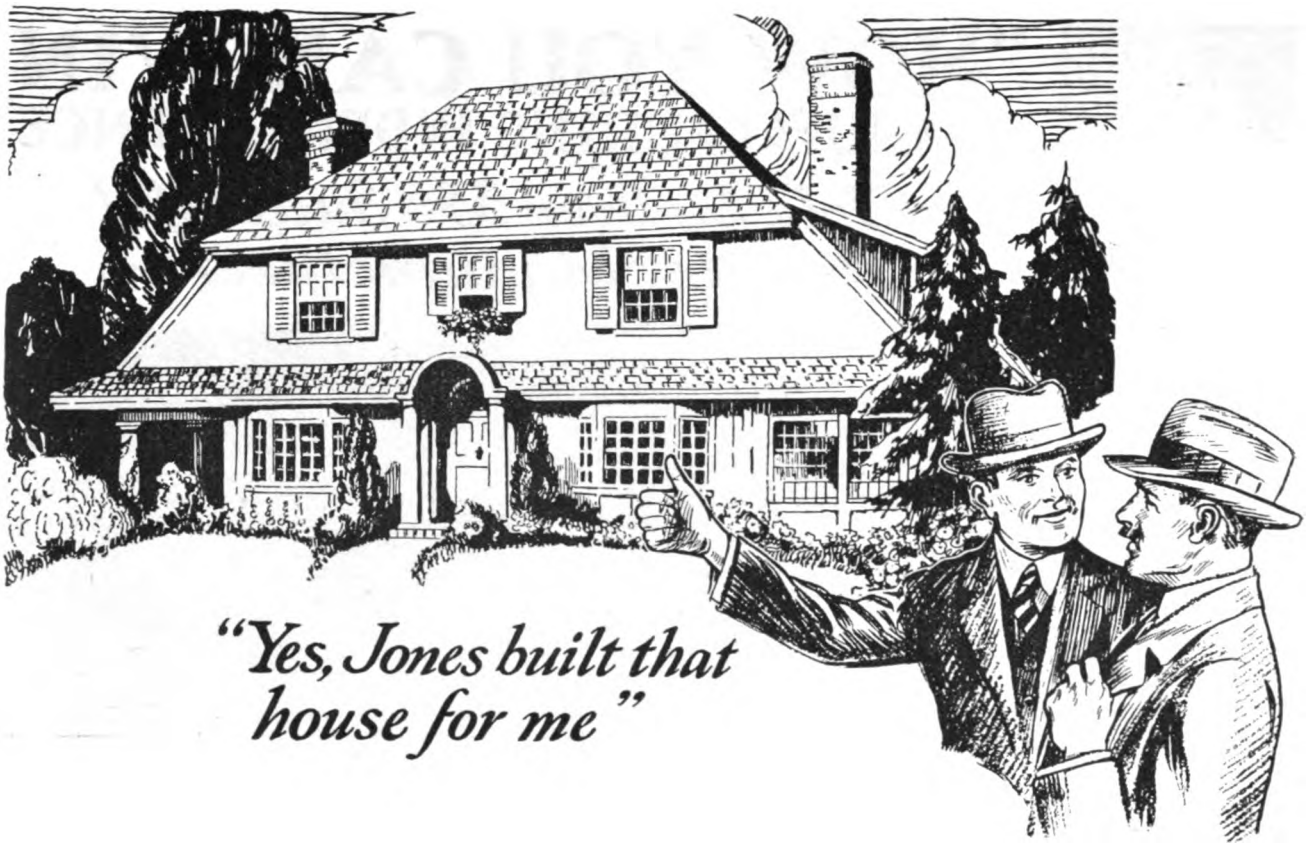
Street Address .....

City ..... State .....

Occupation .....

.....

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That's what makes Jones successful—a long list of satisfied buyers who unconsciously build for him a long list of prospective buyers.

Jones built himself a reputation and he'll keep it, too.

Because he was keen enough to realize in the beginning that the use of known materials of proven quality gave his buildings the permanence most home owners want today.

In the walls of all these homes, Jones uses Banner Finish because it will stay where it was put for generations.

Banner walls won't warp, sag or crumble.

They're hard, smooth and snowy white.

Banner has built its enviable record of more than twenty years on the basis of quality that proves itself under any conceivable test.

BANNER IS KNOWN

In Philadelphia the magnificent new Benjamin Franklin Hotel was completed not long ago. Banner Finishing Lime was used for the walls and ceilings throughout this building.



Banner

Easy to Spread Hard to Beat

NATIONAL MORTAR & SUPPLY CO., *Pittsburgh, Pa.*

The Best Building Supply Dealers Everywhere Stock Banner

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ZINC *CANNOT RUST OR STAIN*

Use it for Sheet Metal Work and Roofing

In deciding on sheet metal work you have two choices. You can have frankly temporary work at lower first cost—or you can pay somewhat more at the start for permanent installations which are far less expensive in the long run.

For permanent installations Horse Head Zinc is the logical material. It offers all the advantages of other permanent metals, and its cost is lower.

Horse Head Zinc will last a lifetime without repair, without protective coating, and will not stain the building it protects. The first cost is the last expense.

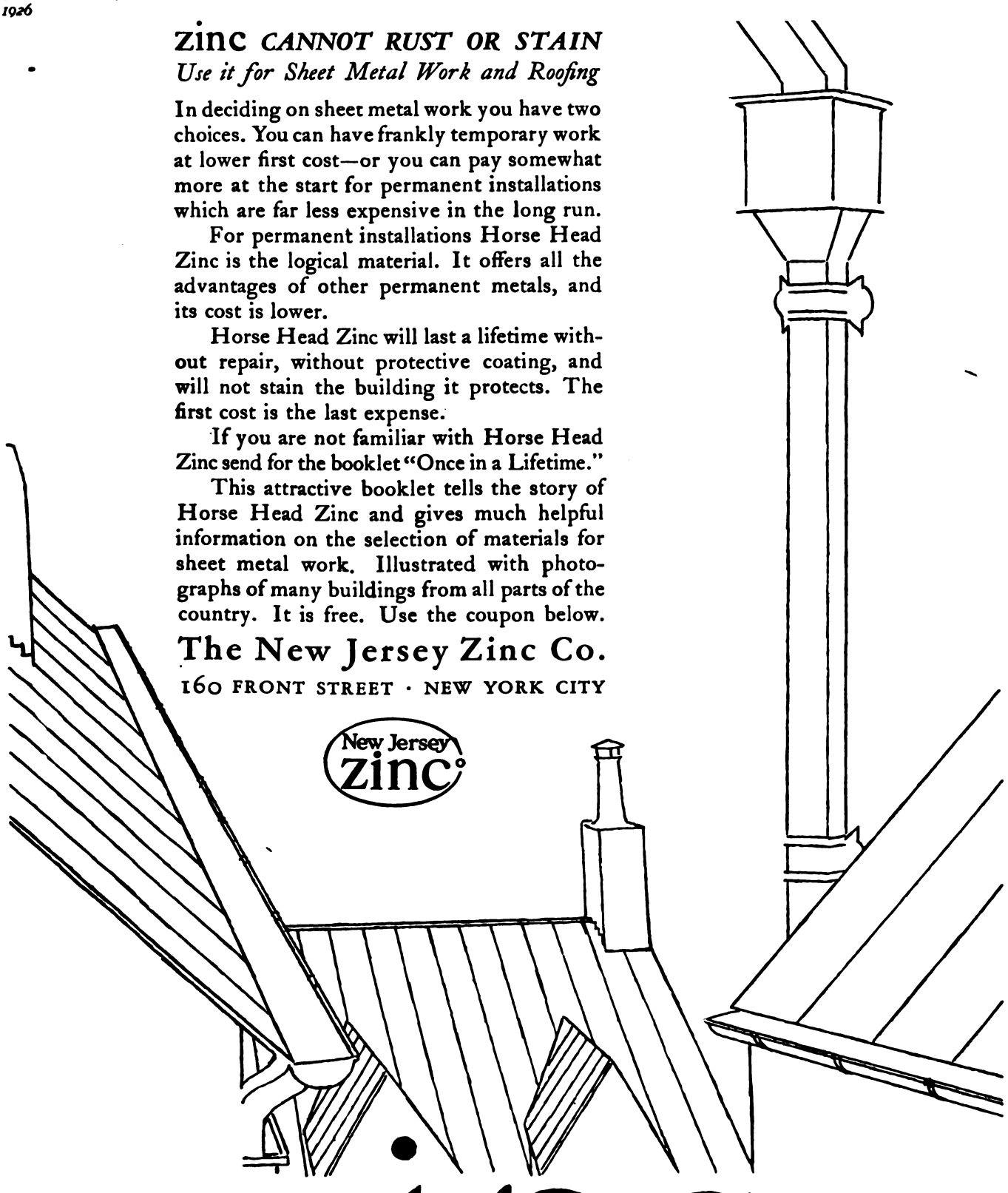
If you are not familiar with Horse Head Zinc send for the booklet "Once in a Lifetime."

This attractive booklet tells the story of Horse Head Zinc and gives much helpful information on the selection of materials for sheet metal work. Illustrated with photographs of many buildings from all parts of the country. It is free. Use the coupon below.

The New Jersey Zinc Co.

160 FRONT STREET · NEW YORK CITY

New Jersey Zinc



Zinc

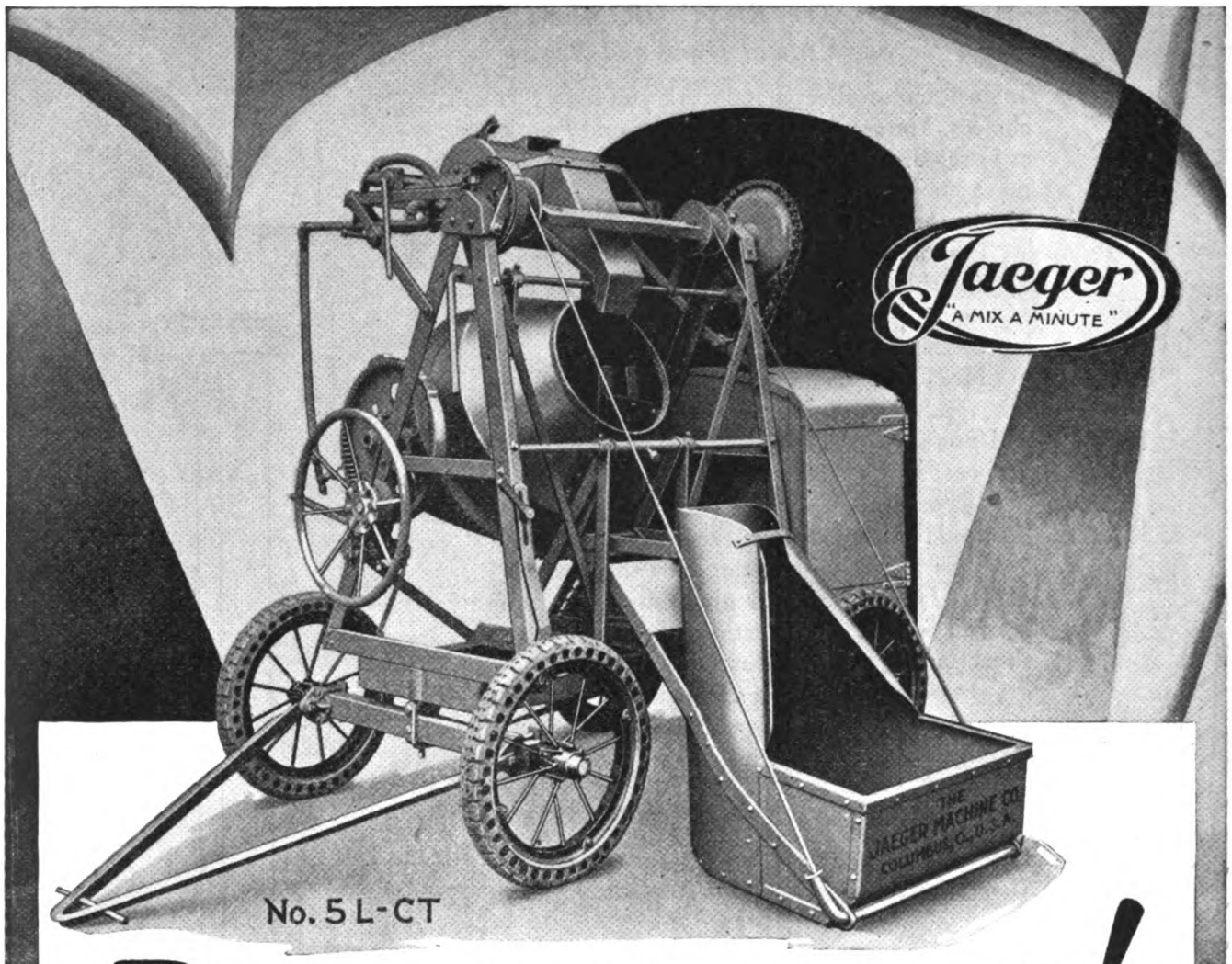
THE NEW JERSEY ZINC COMPANY · 160 FRONT ST., NEW YORK CITY

Send me a copy of "Once in a Lifetime"—your new booklet on sheet metal work and roofing.

MR. _____

ADDRESS _____

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RELIABILITY!

THAT is the one big quality of Jaeger Mixers. The quality that has earned for them world-wide popularity and unquestioned reputation for positive efficiency. It is RELIABILITY and Jaeger low prices that assure every contractor that in a Jaeger he secures the outstanding mixer value on the market.

Jaeger Mixers—built in 36 different models—offer you a complete line. Every mixer in the line is equipped with the original Jaeger Tilting Drum with the flat spots inside. Mounted on skids—or on steel wheels—or cushon or pneumatic tires—with or without Power Loader and Automatic Water Tank—Jaeger Mixers can be furnished in the model exactly suited to your needs.

Write us direct for catalog or see our dealer for full information on the Jaeger line.

THE JAEGER MACHINE COMPANY, 216 Dublin Ave., Columbus, Ohio

JAEGER

THE ORIGINAL JAEGER TILTING-DRUM MIXER

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Announcing

the consolidation of eighteen cinder concrete manufacturers (controlling nineteen plants) into one company, to be known as the

National Building Units Corporation

Headquarters: Insurance Co. of North America Building, Philadelphia

The officers of the National Building Units Corp. are as follows:

President: Leroy A. Goodwin . . . . . Concrete Specialties Co., Camden, N. J.
Vice-Presidents F. J. Straub . . . . Inventor of the Straub Patented Building Block
Geo. L. Benbo . . . . . Of Rufus Waples & Co.
Treasurer: Horace P. Griffith . . . . . President H. P. Griffith & Co., Philadelphia
Secretary: Charles L. Pierce . . . . . Rochester, N. Y.
Chairman of the Board of Directors Charles F. Conn . . . . . President of Giant Portland Cement Co.

◆

The plants comprising the National Building Units are as follows:

FLINT CINDER BLOCK & PRODUCTS COMPANY . . . Flint, Mich.
DETROIT CINDER BLOCK & TILE COMPANY . . . Detroit, Mich.
THE STRAUB PATENTED BLOCK COMPANY . . . . Warren, Ohio
STRAUB BLOCK COMPANY OF NEW CASTLE . . New Castle, Pa.
STRAUB BLOCK CO. OF NEW KENSINGTON . New Kensington, Pa.
STRAUB BLOCK COMPANY OF PITTSBURGH . . . Pittsburgh, Pa.
ERIE PATENT BLOCK COMPANY, Inc. . . . . Erie, Pa.
JAMESTOWN BLOCK & TILE COMPANY, Inc. . . Jamestown, N. Y.
GENESEE BRICK & SUPPLY CORPORATION . . . Rochester, N. Y.
CINDER TILE COMPANY, Inc. . . . . New York, N. Y.
GENEVA BRICK PRODUCTS COMPANY, Inc. . . . . Geneva, N. Y.
ELMIRA BUILDING UNITS, Inc. . . . . Elmira, N. Y.
HARRISBURG BUILDING BLOCK COMPANY . . . Harrisburg, Pa.
PENNA. CON. ROOFING TILE & CEMENT PROD. CO. Lemoyne, Pa.
LANCASTER CONCRETE TILE COMPANY, Inc. . . . Lancaster, Pa.
WASHINGTON CONCRETE PRODUCTS CO. . Washington, D. C.
PHILA. PARTITION & BLDG. BLOCK CO. . . . . Philadelphia, Pa.
CONCRETE SPECIALTIES COMPANY . . . . . Camden, N. J.
CONCRETE SPECIALTIES COMPANY . . . . . Trenton, N. J.

It is the intention of this company to add new plants to the organization from time to time, in sections of the country where territorial rights have not yet been assigned . . . . All plants comprising the consolidation will manufacture and sell for building purposes

CINDER CONCRETE BUILDING BLOCK

Manufactured under Straub and Bo Patents

NATIONAL BUILDING UNITS CORP.

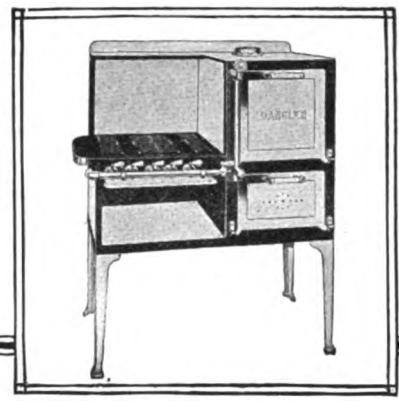
1600 ARCH STREET-PHILADELPHIA

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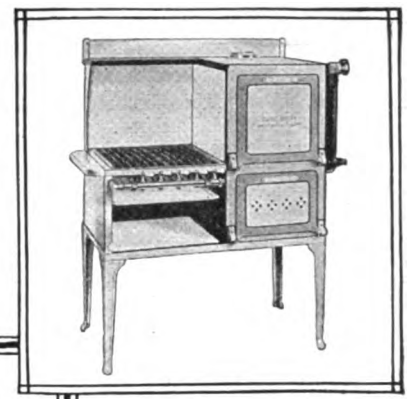
Clark Jewel No. R260 Lorain
Extreme width with shelf, 48″. Oven 16½″ wide, 18½″ deep, 12″ high.



Dangler No. 2024 EF Lorain
Extreme width with shelf, 41″. Oven 14″ wide, 18″ deep, 14″ high.



Direct Action No. 114 ARHR Lorain
Extreme width with shelf, 47″. Oven 14″ wide, 18″ deep, 14″ high.



Stoves DO make a Difference

AN old-fashioned, box-like stove that requires stooping or a range without a Lorain Oven Heat Regulator lowers the selling- or rental-value of any dwelling. It pays to consider home-buyers and tenants who recognize the Lorain Red Wheel as a guarantee of easier, better cooking.

Thousands of women have learned to cook in the Lorain-equipped laboratories of more than 1800 schools and colleges. Millions see the Lorain advertisements that appear continually in thirteen big, national publications.

These women look for the Red Wheel that identifies Lorain, the original Oven Heat Regulator, completely made and unconditionally guaranteed by American Stove Company and found only on these six famous makes of Gas Ranges: **Clark Jewel, Dangler, Direct Action, New Process, Quick Meal** and **Reliable.**

The illustrations show six popular-priced Lorain-equipped Gas Ranges designed especially for compact kitchens. Red Wheel Ranges are made in all sizes, styles and finishes—for any building where cooking is to be done. For additional information, see Sweet's Catalog, 20th Edition, Pages 2769-2778, or send for our "*Handbook*" *for Architects and Builders.*



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.

Unless the Regulator has a RED WHEEL it is NOT a LORAIN

AMERICAN STOVE COMPANY

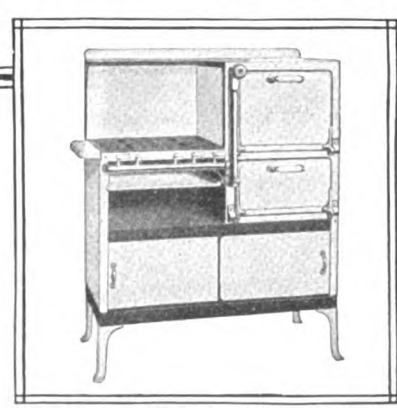
Largest Makers of Gas Ranges in the World

222 Chouteau Avenue ∴ ∴ St. Louis, Mo.

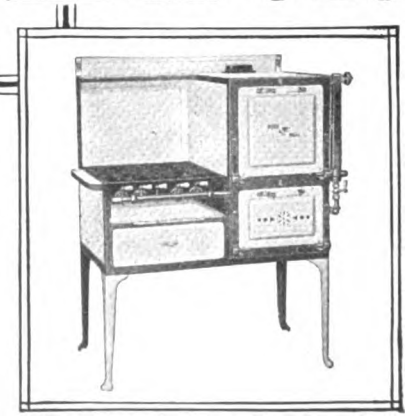
LORAIN OVEN HEAT REGULATOR



New Process No. R-40XX Lorain
Extreme width with shelf, 48″. Oven 16⅜″ wide, 18⅜″ deep, 12″ high.



Reliable No. 6931 Lorain
Extreme width with shelf, 44″. Oven 16″ wide, 18″ deep, 12″ high.



Quick Meal No. 5-414 Lorain
Extreme width with shelf, 45½″. Oven 14″ wide, 18″ deep, 14″ high.

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When your prospect asks *"What color for my roof?"*

Will you be able to give the expert advice that will lead straight to a sale?

The new Richardson Booklet and Harmonizer will enable you to do it.

Booklet contains page after page of interesting homes, showing attractive color combinations of roof, walls and trim.

Harmonizer gives 108 different color effects. You can show your prospect *in advance* exactly how any Multicrome roof will look upon *his particular house*.

"The most powerful selling help ever devised," say hundreds of builders. Regular price 25 cents—*free to you*. Send for yours now. Use coupon at right.



© 1926
The Richardson Co.

The RICHARDSON COMPANY

Lockland (Cincinnati) Ohio

250 W. 57th St., New York City · Chicago · Atlanta
New Orleans · Dallas · 63 Albany St., Cambridge (Boston)

Pacific Coast Distributors
Zellerbach Paper Co., *San Francisco*

MAIL THIS COUPON

The Richardson Company
Dept. 34-E, Lockland, Ohio
Please send me without charge your new Booklet and Harmonizer.

Name .....

Street .....

City ..... *State* .....

RICHARDSON ROOFING

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RODDIS
of GENUINE
offer a guaranteed everlasting



Roddis No. 700

This charming French Door will add elegance and dignity to any home. Illustration is shown with the beautiful grain of African Mahogany. This and many other designs are also carried in stock in Unselected Birch and Plain Red Oak.

The doors of a building get little rest—always working. That's why the best doors are common sense economy.

Roddis doors are made to work with the same smooth efficiency and to look just as beautiful when the building is old as when it is new. They put an end to door problems.

These features are exclusive with Roddis doors—

Permanent: Cannot warp, sag, shrink, swell, check or separate—no danger of later trimming.

Sound-Proof: No thin, vibrating panels to carry or transmit sound and objectionable noise.

Sanitary: No unsightly panels and moulding to provide lodging places for dust, dirt and germs.

Fire-Resisting: Requires over one hour for blow-torch to burn through a Roddis door—less than three minutes to pierce an ordinary panel door.

Finish: Can be finished in any color to harmonize with woodwork, furniture and decorations.

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DOORS

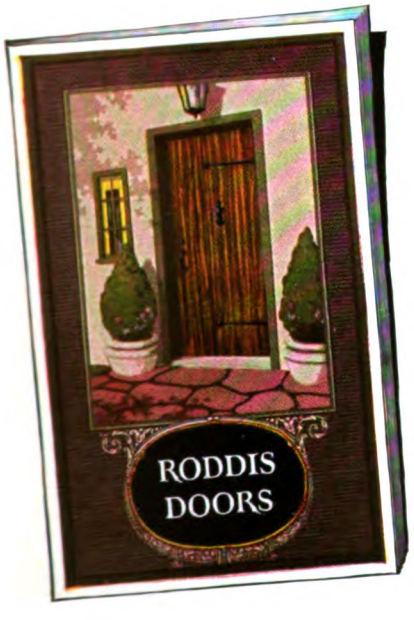
African MAHOGANY

permanence and-beauty!

Enduring Beauty: A permanent investment in beauty and service. African Mahogany survives all changing vogues in woodwork and improves with age. Today mahogany costs less than ever.

Low-Priced: Manufactured in large quantities and carried in stock so that prices are extremely low.

RODDIS LUMBER & VENEER CO.
MARSHFIELD, WISCONSIN



Ask for This Book

It contains the most popular designs of Roddis doors (illustrated in colors) with sizes and prices.

A copy will be sent to you on request.



Roddis Type B

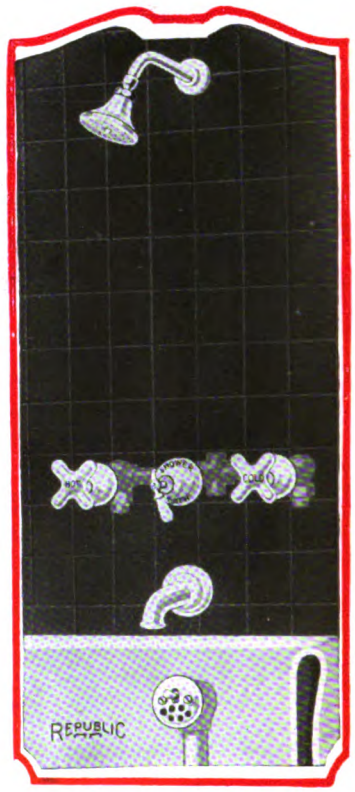
The door above is illustrated in African Mahogany inlaid with Holly and Ebonized wood—also furnished either plain or inlaid with any conventional design. Carried in stock in African Mahogany, Unselected Birch and Plain Red Oak.

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The Lease is signed— they're moving in



PATENTED
March 1920
October 1925
April 1926



It's a question now of how long they will stay

WHEN you succeed in getting tenants into your apartment you've protected your investment up to a certain point. When you succeed in *keeping them as tenants* you have established your investment on a regular income-earning basis.

It's the regular year-in-and-year-out tenants that insure a permanent income—not the floaters. And the extent to which you are able to keep desirable tenants depends upon the services you provide for their comfort and convenience. For tenants today are buying conveniences. They are buying conveniences that lighten labor, save time and add to the joy of living. They are buying the spick-and-span cleanliness, the appealing beauty and the 24-hour-a-day convenience of modern sanitary plumbing.

A modern plumbing installation is a star salesman when it comes to persuasive influence. And quality brass goods—Republic Brass Goods—are the "servants of supply" that insure permanent satisfaction in the modern plumbing installation. The plumbing contractor who installs them is a quality craftsman. Consult him on your next job.

The REPUBLIC BRASS CO., *Cleveland, Ohio*
Good Plumbing • • Good Business • • Republic Brass Goods
Canadian Distributor: The James Robertson Company, Toronto, Ont., Montreal, Que.

The No. 1230-C Republic Two-Way Bath Fixture

combines bath and shower into one unit with positive control of water temperature. The desired temperature of the water may be obtained through the spout of the tub and immediately turned into the shower. No icy cold shock. No steaming spray of scalding water—positive assurance of comfort when taking a shower.



The above tag appears on every piece of Republic Brass Goods. It is the identifying mark of a modern plumber—a plumber who performs high class work and uses quality materials.

REPUBLIC
BRASS GOODS

A copy of a new book we have just published "Modern Conveniences" explains definitely how modern plumbing fixtures and quality brass goods help to insure a steady income from your building investment



THE REPUBLIC BRASS COMPANY
Cleveland, Ohio

Please send me a copy of your new book "Modern Conveniences."

Name.....

Address.....

City..... State.....

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Speed and Profits on JOBS Big *or Little*

CONTRACTORS
large and small, use
SKILSAWS

ILLINOIS
Avery Brundage
Dahl Steadman Co.
Hageman Harris Co.
Geo. A. Fuller Co.
McLennon Construction Co.
Mid-Continent Const. Co.
Paschen Bros.
Wells Bros.
R. C. Wieboldt Co.
and many others

INDIANA
Foster Engineering Service
Hoffman Construction Co.
Rath Construction Co.
and many others

MICHIGAN
Albert A. Albrecht Co.
J. W. Butler Construction Co.
Longacre Construction Co.
Walbridge & Aldinger
Otto Misch Construction Co.
and many others

MISSOURI
Hall-Mackay Construction Co.
Murch Brothers
Wells Brothers
and many others

NEW YORK
The Foundation Co.
Henry C. Steers Co.
Turner Construction Co.
Todd Shipyards
James Stewart Co.
and many others

OHIO
The Austin Co.
The H. K. Ferguson Co.
The Lundoff-Bicknell Co.
and many others

JOBBERS
Desired

One big contracting firm in Chicago has a dozen *Skilsaws* on one job. A carpenter in one of the suburbs has one *Skilsaw*, upon which he depends to keep his work easy for his increasing years.

You can take *Skilsaw* right to the job. Wherever you can plug in on current, direct or alternating, there you can use *Skilsaw* to cut at twenty times your fastest hand sawing.

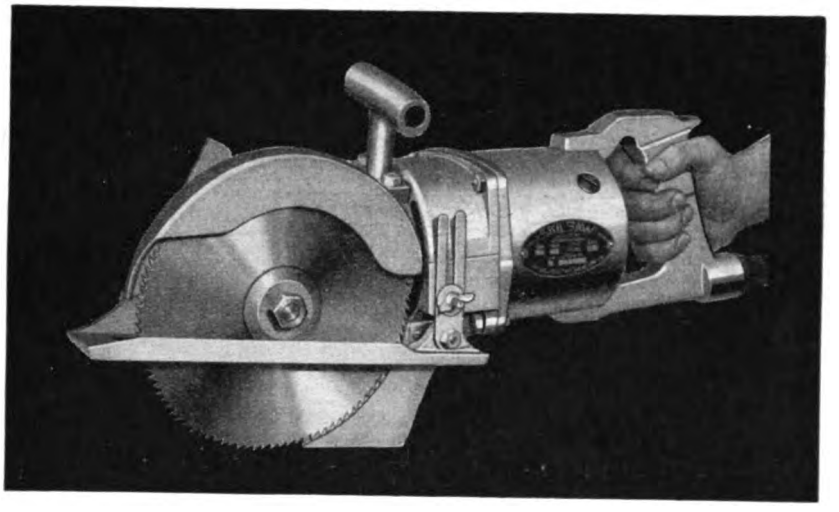
Skilsaw is a sturdy, compact and dependable tool, weighing about 22 pounds. It will cut boards up to 3 inches. The motor is a G.E. Universal and the saw is the fine product of a famous saw maker.

Cut your costs, finish your job ahead of schedule.

Put *Skilsaw* on the job now. Be equipped to win the next contract on a lower bid.

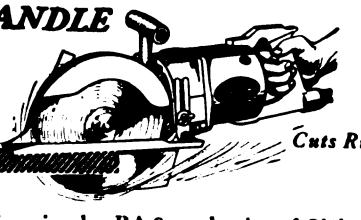
Send the coupon for illustrated circular and price. Don't wait.

MICHEL ELECTRIC HAND SAW CO.
3818 Ravenswood Ave., Chicago, Ill.



SKILSAW

PUTS HORSE POWER *AT THE SAW HANDLE*



Cuts Right to the Line

MICHEL ELECTRIC HAND SAW CO.
3818 Ravenswood Ave., Chicago, Ill.—Send me your descriptive circular BA 9 and price of *Skilsaw*. No obligation incurred.

Firm Name ..... *Your Name* .....

Street ..... *City & State* .....

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Why Garrett & Son changed to Kelly Kats

ESTABLISHED 1851

C. S. GARRETT & SON CORP.

20 & 22 SOUTH MARSHALL STREET

RAWHIDE WATERPROOF PAPER

Building and Roofing Papers
Coal Tar and Asphalt Products

A. BATCHELOR
President

PHILADELPHIA

April 15th, 1926

Atlantic Tire & Rubber Co.
1415 Mt. Vernon St.
Phila. Pa.

Attention of
Mr. Jos. Browne

Gentlemen:-

In reply to your Mr. Browne's inquiry as to why we changed to Kelly Caterpillar tires for our trucks we would call your attention to our motto, "Roofing Materials delivered WHERE you want them WHEN you want them."

New Building Operations, as you know, are usually off the paved streets. We found Kelly-Kats would not only take the load in to the job through the mud but would also get the truck out again.

We formerly had quite a lot of trouble with our trucks getting stuck in the mud but have not had one stuck since changing to Kellys.

We also use Kelly Air-Core Tires on the fronts as we believe they save in repair bills by relieving the motor from the shocks and jars of a rough road.

We certainly would not hesitate a moment in recommending Kelly Tires to any one giving their trucks the rough usage we do.

Very respectfully yours,

C. S. GARRETT & SON CORP.

C. S. Garrett, Treas.

THE third paragraph of this letter from C. S. Garrett & Son Corp. to the Kelly-Springfield dealer in Philadelphia, tells a story in itself.

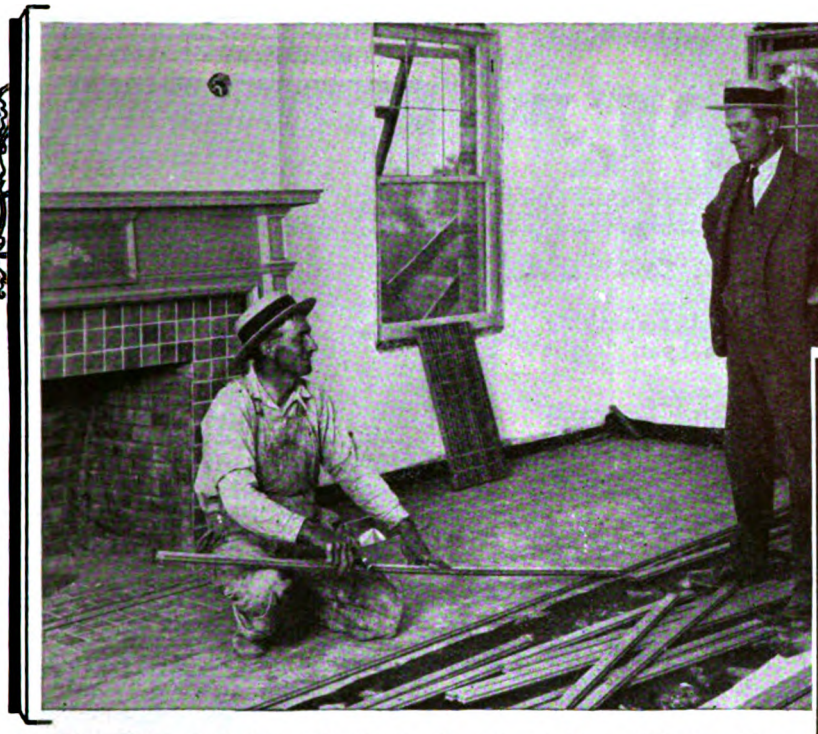
Kelly Kats are noted for their phenomenal traction. They will plough through mud or over crushed rock and gravel without any tire-some, profit-eating delays. The truck equipped with Kelly Kats will go where-ever the engine has power to push it.

KELLY-SPRINGFIELD TIRE CO.
250 West 57th Street New York City



KELLY-SPRINGFIELD TIRES

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Installing Ritter Appalachian Oak Flooring in a fine residence, Columbus, Ohio, Mr. G. C. Lockwood, Builder.



Home of Irving A. Collins, Moorestown, New Jersey, floored with Ritter Appalachian Oak Flooring, strip pattern.

This contractor was "from Missouri," but the floor-layer convinced him

"IT goes together like the parts of a machine. No time wasted matching up. There is really no matching to do — just lay and nail. It's a cinch to lay this kind of flooring. . . ."

Contractors and builders who have used Ritter Appalachian Highland Oak Flooring or have talked with those who have, know that it matches perfectly, drives up tight, nails and finishes easily and makes a job of which they and their floor-layers may be justly proud.

The savings in time, labor and material, together with the permanent beauty of the finished floor, offset any slight difference in initial cost; the floors become a lasting testimonial to the builder's good judgment in the proper selection of materials and his craftsmanship in floor laying.

Ritter Floors have been the deciding factor in closing many sales. Discriminating buyers appreciate their elegance and charm. The beauty of grain and the uniformity of texture need not be "shown." They can be *seen*.

The same excellent qualities which are so characteristic of Ritter Appalachian Oak Flooring also make Ritter Appalachian Highland Oak Lumber superior for interior trim.

W. M. RITTER LUMBER COMPANY
Appalachian Lumbermen since 1890
General Offices: Columbus, Ohio

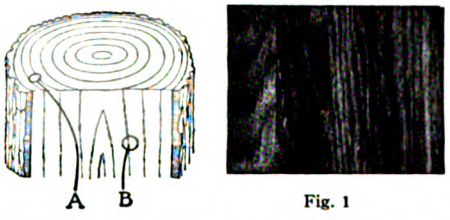


Fig. 1

These illustrations show the effect of timber growth upon flooring. Fast growth causes the wide annular growth rings (A), which produce the coarse grain (B). Fig. 1 illustrates a panel of flooring made of rapid growing oak. Such flooring lacks the beauty and dignity characteristic of finer material.

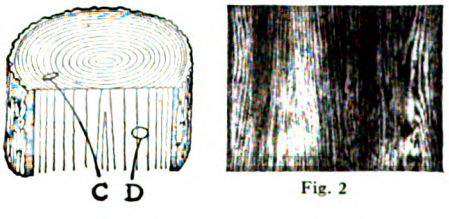


Fig. 2

On the other hand, slow timber growth which depends on favorable climate, soil and drainage, results in close annular growth rings (C), which in turn produce the fine, even grain (D), typical of Ritter Appalachian Oak Flooring (Fig. 2), the use of which assures the most beautiful oak floors.

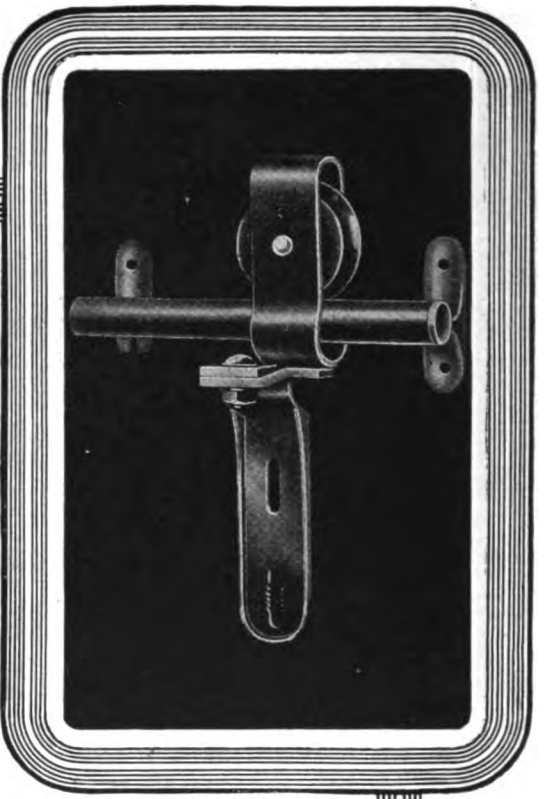
Send for booklet explaining and illustrating in detail the superiorities of flooring made from Appalachian Highland Lumber.

RITTER
APPALACHIAN OAK
FLOORING

W. M. Ritter Lumber Co., Dept. B
Columbus, Ohio
Please send free copy of "Ritter Oak Flooring."
Name.....
Street.....
City.....State.....
I purchase my flooring from.....

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ALLITH



While all mules have long ears and look something alike you'd have a hard time trading a span "sight unseen" to a Connecticut Yankee.

Garage Door Hangers look something alike, too. But when you trot 'em out and look 'em over it's not hard to see the difference.

"1180" and "1189" Garage Door Hangers

have the round track we originated 25 years ago. This, with the machined cast hanger wheels that barely touch the track, forms a free-running, quiet combination that has no side friction whatever. They don't balk, or jam, or stick and can't jump the track.

Swivel type; reversible; vertical adjustment. Hardened steel axle; lubricated roller bearings.

"1180" is for 3, 4, 5, or 6 door openings. "1189" is the same except it is made for "round-a-corner" doors. Both are adjustable for old or new doors and provide extra wide openings.

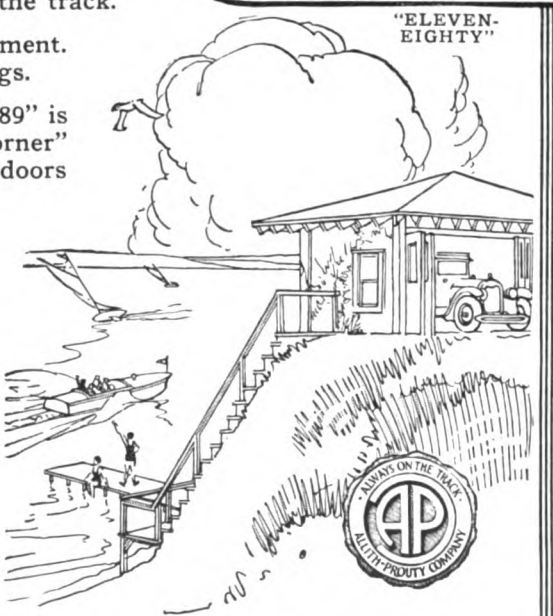
Best of all, they cost no more than the ordinary flat track type. They are the kind you can sell and then forget—which is a hard claim for a garage door hanger to make good on.

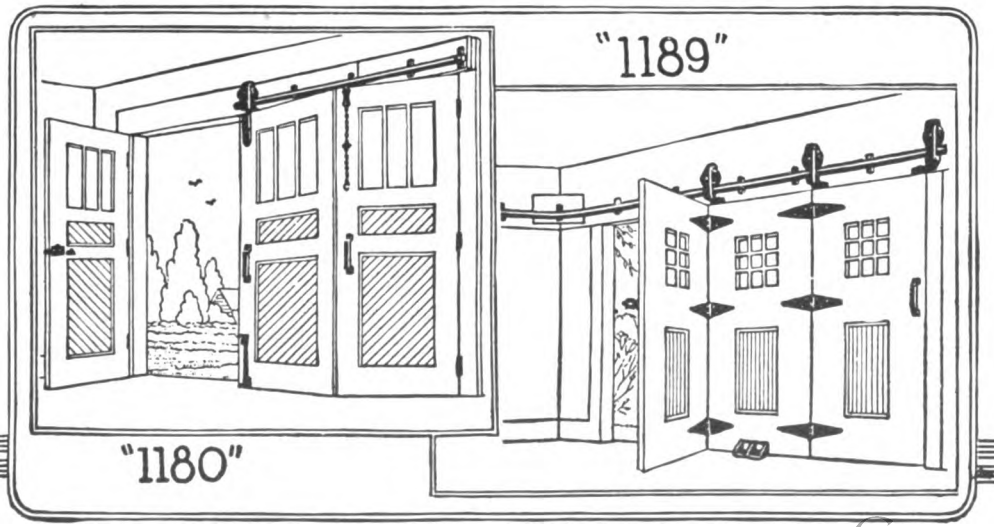
Handy carton. Attractively priced. Write for catalog.

ALLITH-PROUTY COMPANY
DANVILLE, ILLINOIS

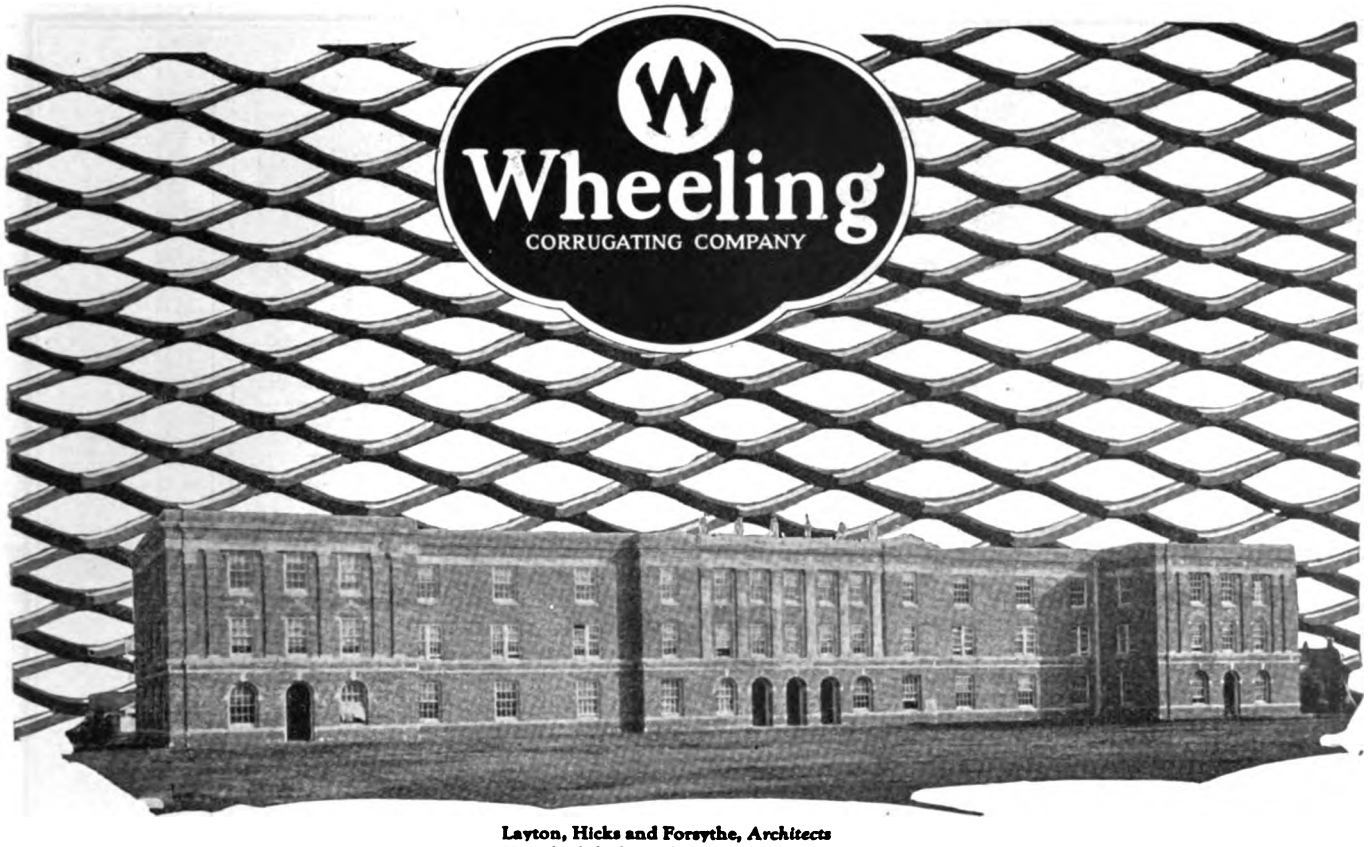
Manufacturers of

Garage Door Hardware
Fire Door Hardware
Rolling Ladders
Spring Hinges
Overhead Carriers
Door Hangers





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Layton, Hicks and Forsythe, *Architects*
Kreipke Schafer and Company, *Contractors*

Ten Thousand Square Yards of Wheeling Metal Lath in This Building

THE selection of Wheeling Sheet Steel Products for the new dormitory building of the Oklahoma Agricultural and Mechanical College, Stillwater, Oklahoma, is testimony of the highest order to their quality, workmanship and dependability.

The amount of Wheeling material used —10,000 square yards of Metal Lath, 100,000 feet of ¾" and 20,000 feet of 1½" Steel channels, 5,000 feet of zinc coated corner bead—is *added proof* that Wheeling quality and Wheeling service are right.

The name Wheeling on Metal Lath, Metal Shingles, Roofing Ternes, Conductor Pipe, Steel Ceilings, Metal Beads for plastering corners and other building materials, is a guarantee of a lifetime of service.

A generation of experience behind the building of Wheeling Products insures the most improved design and manufacture plus a quality you can always depend upon.

WHEELING CORRUGATING COMPANY, WHEELING, W. VA.

Wheeling

METAL LATH

NEW YORK · PHILADELPHIA · CHICAGO · MINNEAPOLIS
ST. LOUIS · KANSAS CITY · CHATTANOOGA · RICHMOND

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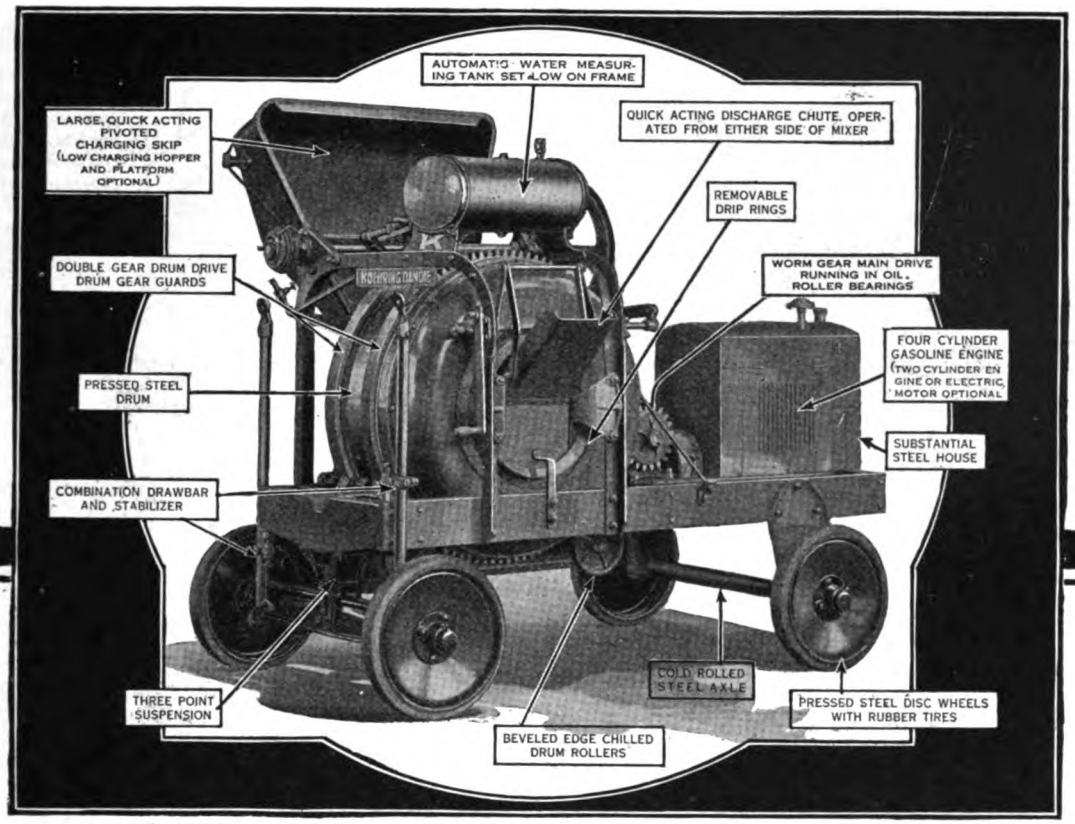


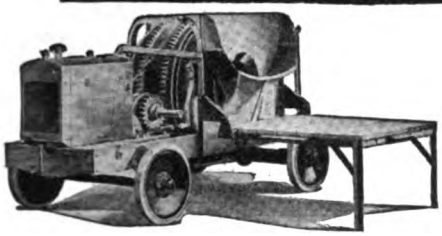
COMPLETE

in items, sizes, patterns, and finishes is the National Line of Builders' Hardware. All are illustrated and described in Catalog No. 19—write for it and give your dealer's name.

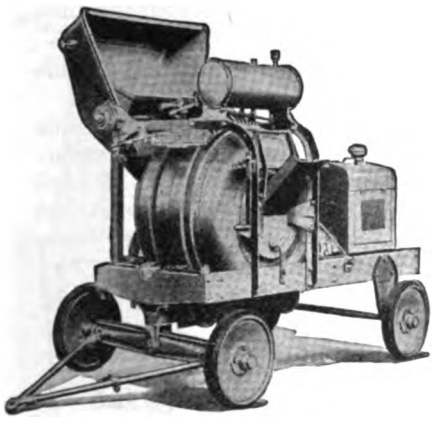
NATIONAL MANUFACTURING COMPANY, STERLING, ILLINOIS.

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Low charging platform, steel frame of which is hinged to mixer, and can be folded up against mixer-frame for hauling from job to job! Wide, capacious charging hopper makes charging easy.



Charging Skip goes to high angle charging position — shoots materials into drum without pounding skip! Note low automatic water measuring tank and Disc Wheels! Liberal drum dimensions!

HIGH speed operation — balanced light weight for fast hauling, and strong sturdy construction for long hard service —that's the Koehring Dandie!

Fast charging and fast discharging, the Dandie is a big money earner!

KOEHRING 7-S DANDIE Mixer

is the outstanding value in the light mixer field. Its design includes: 4 cylinder radiator-cooled engine or hopper-cooled two cylinder engine; completely enclosed transmission in dust tight oil bath with shaft on roller bearings; double drum gear drive; drum rollers fixed to shaft turning in big bearings insuring even bearing wear, and perfect lubrication!

7-S Dandie Mixer

Two or four cylinder engine. Charging skip or low charging hopper and platform. Automatic water measuring tank. Rubber tired steel disc wheels, or steel wheels. Complies with A. G. C. Standards.

Send back this coupon

learn the construction of the Dandie, and you will recognize a remarkable value, and big profit earner on the job.

A3166-1

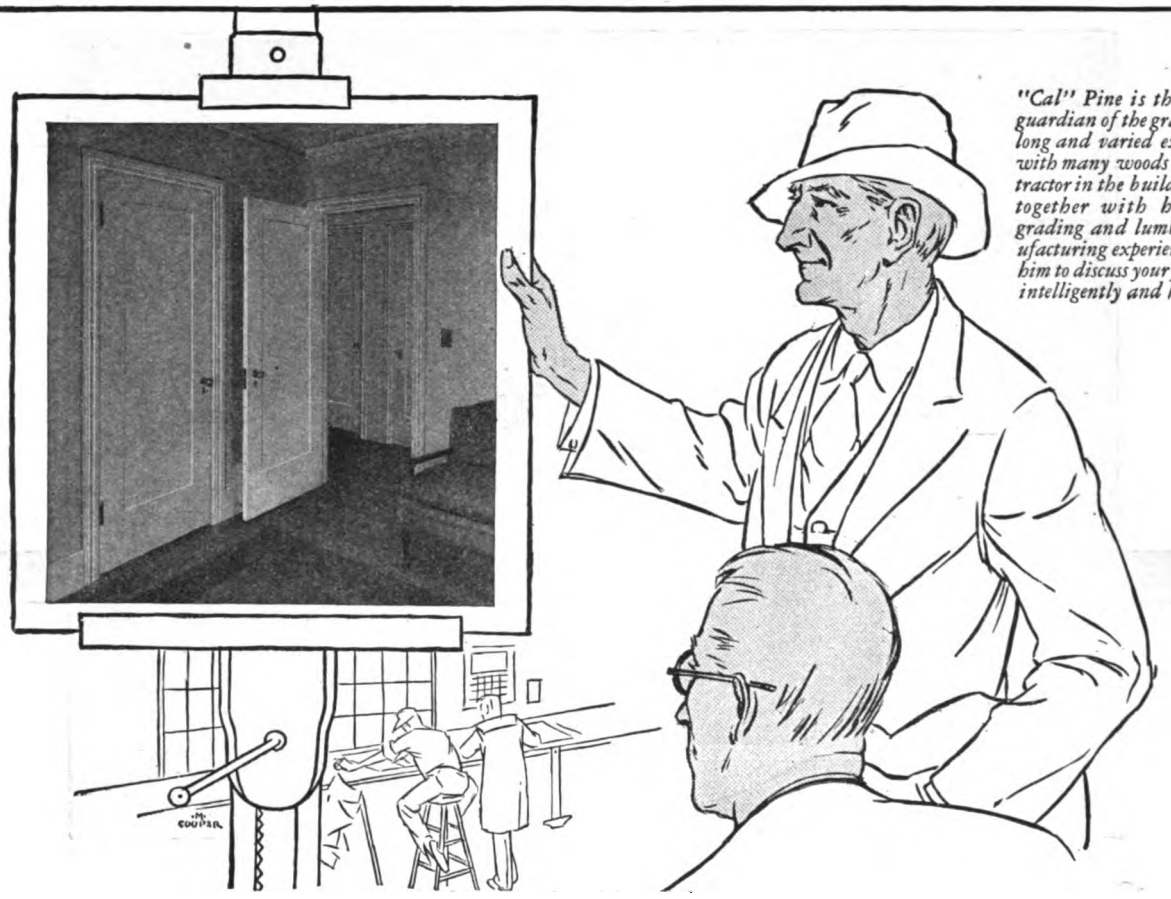
KOEHRING COMPANY MILWAUKEE WISCONSIN
PAVERS, MIXERS—GASOLINE SHOVELS, CRANES AND DRAGLINES
Sales Offices and Service Warehouses in all principal cities
Foreign Dept., Room 1370, 50 Church St., New York City
Canada, Koehring Company of Canada, Ltd., 105 Front Street, East, Toronto, Ontario
Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

KOEHRING COMPANY, Dept. D-4, Milwaukee, Wis.
Without obligation to me of any kind, send me free information about Koehring Dandie Mixer.

Name .....

Address .....

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"Cal" Pine is the official guardian of the grades. His long and varied experience with many woods as a contractor in the building field together with his later grading and lumber manufacturing experience equip him to discuss your problems intelligently and helpfully

The *Builder* and *"Cal" Pine* Discuss Doors

"You say California White and Sugar Pines make fine doors, most inexpensive to install. Why is this so?"

"Well, as you know, a door is made by cutting and assembling several pieces of wood of various shapes and sizes. For that reason, the service a door gives depends upon both the natural qualities of the wood and their adaptation to door construction.

"These soft pines have proved to be ideal 'working' woods. They have a uniformly soft, easy-cutting texture with straight, even grain, making them easy to 'mill.' Designs, lines, contours, come from the knives sharp in detail and profile. Surfaces and edges are clean and smooth."

"But how about service-qualities, and the cost of installation of California Pine doors?"

"That's the real test of door-value, I believe. And California White Pine and Sugar Pine have an enviable record on door-service and installation costs. These woods take and hold glue remarkably well, which is immensely important in holding fast together the various parts of the doors, so that they can be depended upon to give permanent service under hard usage. Also they have great freedom from tendency to shrink or swell under variable conditions. And the costs of installation are lowest. Carpenters save time cutting, fitting and hanging California Pine doors."

"To what extent do door manufacturers use California Pine lumber?"

"More than any other wood. Millions of California Pine doors are made every year. Most door manufacturers prefer California Pine because of its ideal working qualities, ample supply and the high-class finished product it makes."

"My illustrated book of grading rules covers the entire subject of grades, sizes and uses of California Pine. You'll find this book very useful in the drafting room. A postcard will bring you a copy gratis."



CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION

Also producers of CALIFORNIA WHITE FIR · CALIFORNIA DOUGLAS FIR · CALIFORNIA INCENSE CEDAR

857 CALL BUILDING, SAN FRANCISCO

california PINE

California White Pine (trade name) California Sugar Pine

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St. Paul's Cathedral, London, England. Designed by the famous English architect, Sir Christopher Wren. Roofed with lead.

New addition to the manufacturing plant of the Kemper-Thomas Co., Cincinnati, Ohio. Metal work in LEADCLAD.

PHOTO—EWING GALLOWAY

Cincinnati takes a leaf from London



THE Kemper-Thomas Company of Cincinnati in search for a material for the metal work on their new building, followed the same course that Sir Christopher Wren adopted when he built the famous St. Paul's Cathedral.

When the last solid lead slab was put into place on the great dome of St. Paul's, Wren predicted that it would be two hundred years before this great monument to Christianity would require repairs.

Wren specified lead because its weather resisting qualities and its permanency had been recognized for centuries.

The Kemper-Thomas Company chose LEADCLAD for the same reason.

LEADCLAD is the modern development of the time-tried lead roof of old. LEADCLAD is pure lead, reinforced with steel. It is rust proof and smoke-acid proof. LEADCLAD is manufactured in light workable sheets, and is as convenient, as inexpensive, as easy to handle as any form of metal roofing. It affords lead surface protection without the weight or weakness of solid lead. LEADCLAD is the durable, economical roofing for your buildings. Get the full information about it.

If your dealer cannot supply you with LEADCLAD information, write to us direct and we will send you samples of LEADCLAD, together with reports of actual tests and full details.

Wheeling Metal & Mfg. Company,
Dept., B
Wheeling, W. Va.

LEADCLAD is manufactured in all standard forms of eavestrough, conductor pipe, roofing and siding, and can be obtained in all standard sizes and gauges.

Valuable territory is still open in some localities. For particulars write.



LEADCLAD

REG. U.S. PAT. OFFICE 1923

PURE LEAD—REINFORCED AND STRENGTHENED WITH STEEL

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Lime Plaster Wall Finishes

A Wide Choice for the Builder



Sand Finish

This stone-like effect is one of the many attractive sand finish surfaces



French Texture

An antique finish produced by the stippling brush



Spanish Texture

"Pulled" with the cork float, lime plaster yields interesting textures like this

GOOD old lime plaster, the standard plaster material since building began, still offers the widest opportunity to the builder who realizes that good plastering sells houses.

There is no limit to the variety of effects possible through the use of lime plaster.

Smooth Finish

The most common surface is the smooth trowel finish—used when the surfaces are to be papered, painted, or canvassed. Lime plaster will always be standard for this style—because of its sound absorbing qualities and the perfection it makes possible.

Sand Finishes

When the surface is to be tinted or painted, the sand finish is a favorite. It yields a variety of interesting effects—from smooth to rough—attained by the use of wood float, cork float, and carpet float. The builder should not overlook the opportunities in sand finish.

Antique Finishes

With a mixture of two parts *Tiger Finish* and one part plaster paris, any desired effect can be obtained.

Cover all brown mortar with *Tiger Finish* in the usual way, then with a 4-inch brush, sponge, cloth, stippler or trowel—apply more of the mixture to the white surface—working to the effect desired. A good plasterer will prepare samples from which you can select the appropriate antique finish for the job on hand.



Italian Texture

A highlight antique effect produced with the pointing trowel



Old English

Lime plaster — highlighted with the small trowel—yields a variety of such effects



Spanish American

"Sucked" with the cork float. Such rough textures are best for some interiors

The Kelley Island Lime & Transport Company

World's Largest Producer of Lime

including Tiger Finish, Tiger Mason's, Tiger Agricultural and Lump Limes for All Purposes

Leader-News Building, Cleveland

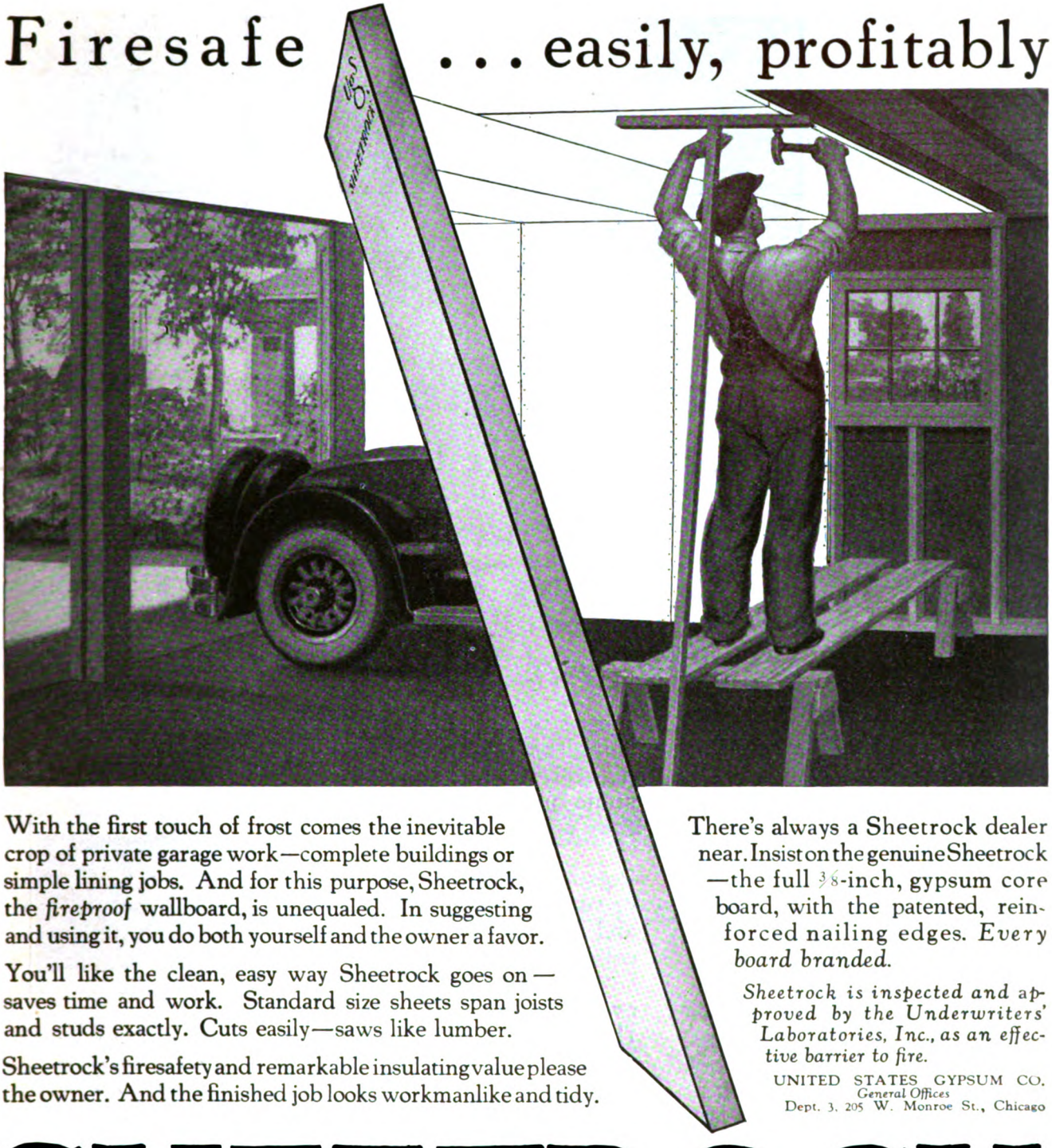


TIGER FINISH

"SPREADS LIKE WARM BUTTER"

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Firesafe . . . easily, profitably



With the first touch of frost comes the inevitable crop of private garage work—complete buildings or simple lining jobs. And for this purpose, Sheetrock, the *fireproof* wallboard, is unequaled. In suggesting and using it, you do both yourself and the owner a favor.

You'll like the clean, easy way Sheetrock goes on—saves time and work. Standard size sheets span joists and studs exactly. Cuts easily—saws like lumber.

Sheetrock's firesafety and remarkable insulating value please the owner. And the finished job looks workmanlike and tidy.

There's always a Sheetrock dealer near. Insist on the genuine Sheetrock—the full 3/8-inch, gypsum core board, with the patented, reinforced nailing edges. *Every board branded.*

Sheetrock is inspected and approved by the Underwriters' Laboratories, Inc., as an effective barrier to fire.

UNITED STATES GYPSUM CO.
General Offices
Dept. 3, 205 W. Monroe St., Chicago

SHEETROCK

The *FIREPROOF* WALLBOARD

Reg. U. S. Pat. Off

Made by the United States Gypsum Company

. . . . . ***Clip and mail this coupon today!*** . . . . . .

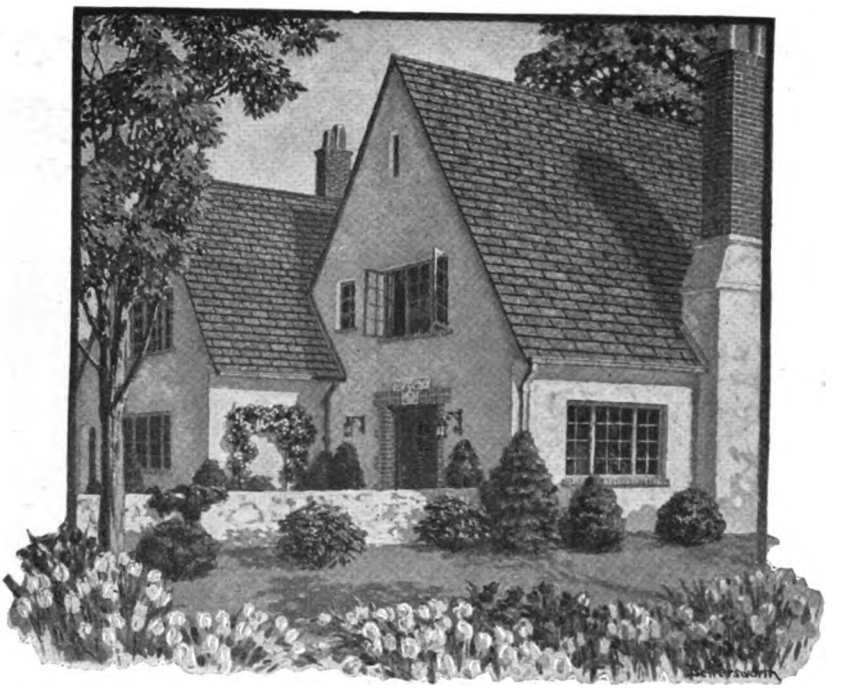
UNITED STATES GYPSUM COMPANY, *General Offices:* Department 3, 205 W. Monroe Street, Chicago, Ill.
Please send me your data on the new Sheetrock Reinforced Joint System and other special information on Sheetrock.

Name .....

Address .....

Sheetrock comes in standard sizes: 3/8 inch thick, 32 or 48 inches wide and 6 to 10 feet long

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ONE THIRD THICKER
than a standard No.1 *slate shingle*

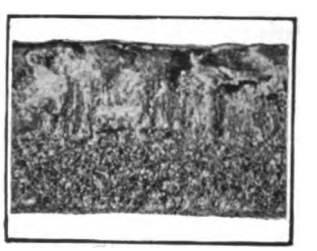
THE Massive Weight Preston Shingle is much thicker than any other slate-surfaced asphalt shingle on the market. It is one-third thicker than a standard No. 1 slate shingle.

The unusual thickness of the Massive Weight creates the definite shadow line that architects demand. Hence this roofing lends an impressive tone of distinctiveness to any house. Not only does the extra thickness of these shingles contribute an important architectural feature, but it adds many years to the life of the roof.

The striking colors of these shingles are produced by the natural tints of the slate and stone particles with which they are surfaced.

Preston Shingles are made in two designs—Rectangular and Hexagonal, and in four colors — Red, Blue - Black, Green and Sunset. They are available in three weights—Heavy Standard, Extra Heavy and Massive.

We will be glad to send you samples of Preston Roofing and an architect's file card. Write to Dept. C-21.



THE wearing qualities of Preston Shingles are dependent not only on the quality, but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

KEYSTONE ROOFING MANUFACTURING COMPANY
York, Pennsylvania

Preston
ROOFING

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C. J. HEESEMAN FRONT,
SACRAMENTO, CALIF.
Hemmings & Starks, Architects
Siller Bros., Contractors

Five Points for Contractor's Consideration

Besides being mechanically correct, the following features have made possible Kawneer supremacy in the store front field.

Easily Installed: Kawneer heavy gauge copper construction is made to fit standard dimension woodwork.

Quick Delivery: Ample stocks are carried in branch office and jobber's warehouses located in the hub of almost every industrial center.

Profit: Kawneer Solid Copper Store Fronts are sold at prices that enable contractors to make a profit.

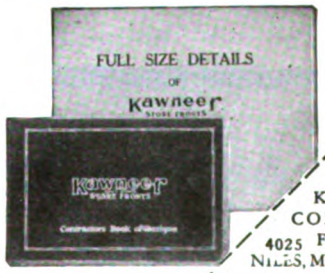
Easier to Sell: A standard product nationally known. Technical and trade paper advertising paves the way for you.

Ability to Serve: Kawneer products are backed by the largest manufacturers of store front construction in the world — the originators of hollow metal glass setting.

Let us figure with you

THE
Kawneer
COMPANY
NILES, MICH.

BRANCH OFFICES AND SALES AGENCIES IN 90 CITIES



THE
KAWNEER
COMPANY
4025 Front Street
NILES, MICHIGAN

Check literature desired:
☐ Contractor's Book of Designs,
☐ Contractor's Full Size Details.

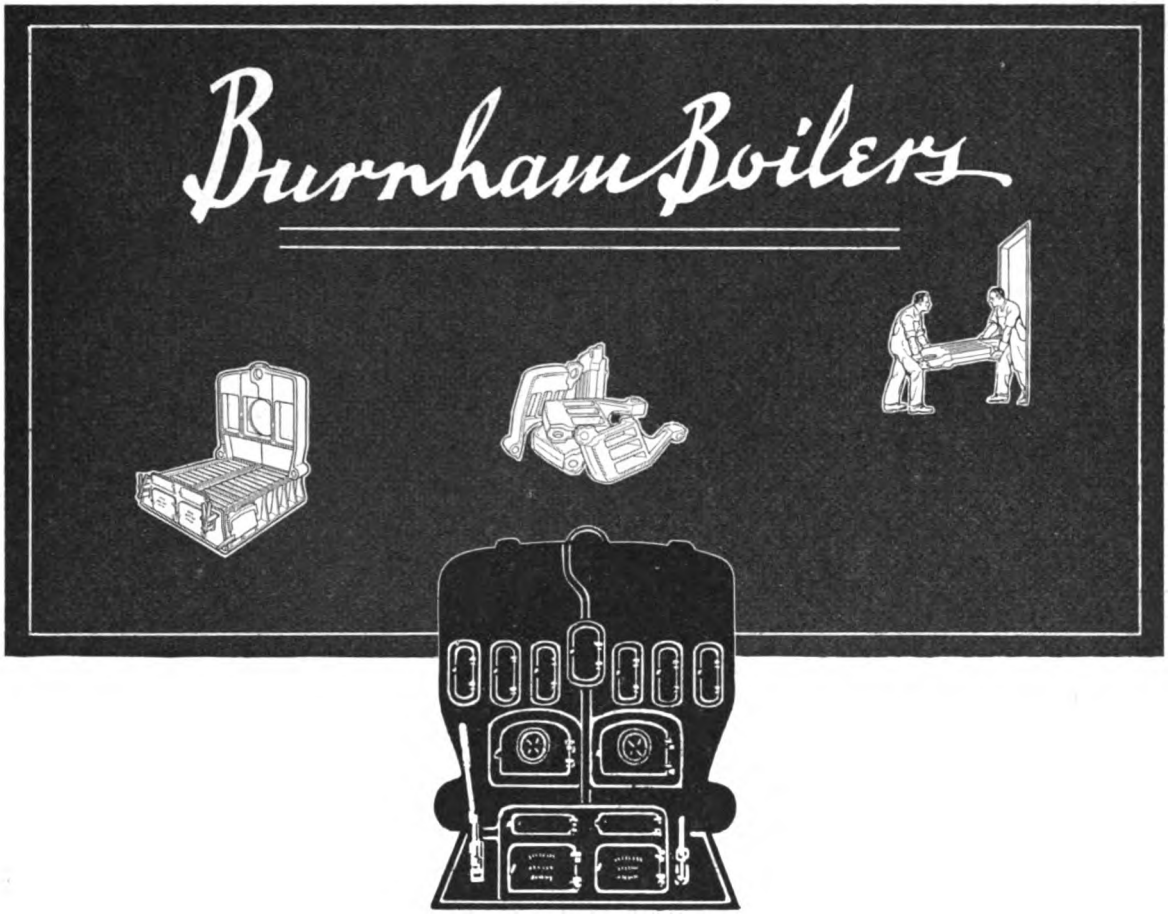
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Burnham Boilers



When the job is big and the opening small

THEN it is, a Burnham Twin shines. Big as it is, there is no part of it that can't be taken through an opening a foot wide and three high. You know what that means on remodeling jobs; or where the heating is delayed and the building enclosed and floors down.

The Burnham Twin can be carried in along with the furniture and with no harm to floors or woodwork. It will heat 27,000 square feet for water or 16,550 square feet for steam.

Get the full facts. Send for catalog. See for yourself.

Burnham Boiler Corporation

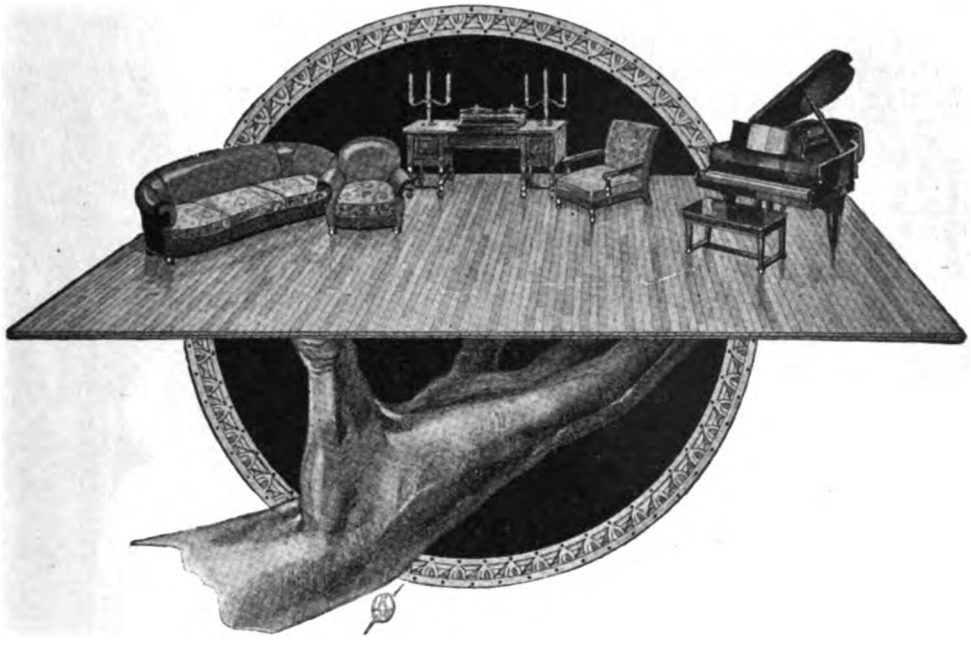
Irvington, New York

New York Office: 30 East 42nd Street

Representatives in All Principal Cities

Canadian Offices:
Harbor Commission Building, Toronto
124 Stanley Street, Montreal

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If a giant lifted a Maple floor

It would rise like a great, smooth, one-piece area of hardest wood—because every piece is side and end-matched to perfection—made for comfort, wear and beauty.

Maple is remarkably hard, tough-fibred and tight-grained. It does not sliver, splinter or develop ridges. Years of wear simply make it smoother and more polished. Maple, therefore, brings not only lasting beauty but unusual cleanliness as well.

Beech and Birch, two kindred woods closely like Maple in qualities of wear, are richly beautiful when given a natural finish and also readily take an even stain.

In homes and apartments, in office buildings, hotels, assembly halls—wherever wear and beauty are essential—use Maple, Beech or Birch.

Let our Service and Research Department assist you with your flooring problems. Send us your questions or write for any of these booklets you wish.

- ☐ The Floors for Your Home.
- ☐ New Floors for Old.
- ☐ Color Harmony in Floors.
- ☐ Three Native Hardwoods of Sterling Worth.
- ☐ How to Lay and Finish Maple, Beech and Birch Floors.

MAPLE FLOORING MANUFACTURERS ASSN.
1065 Stock Exchange Building, *Chicago*

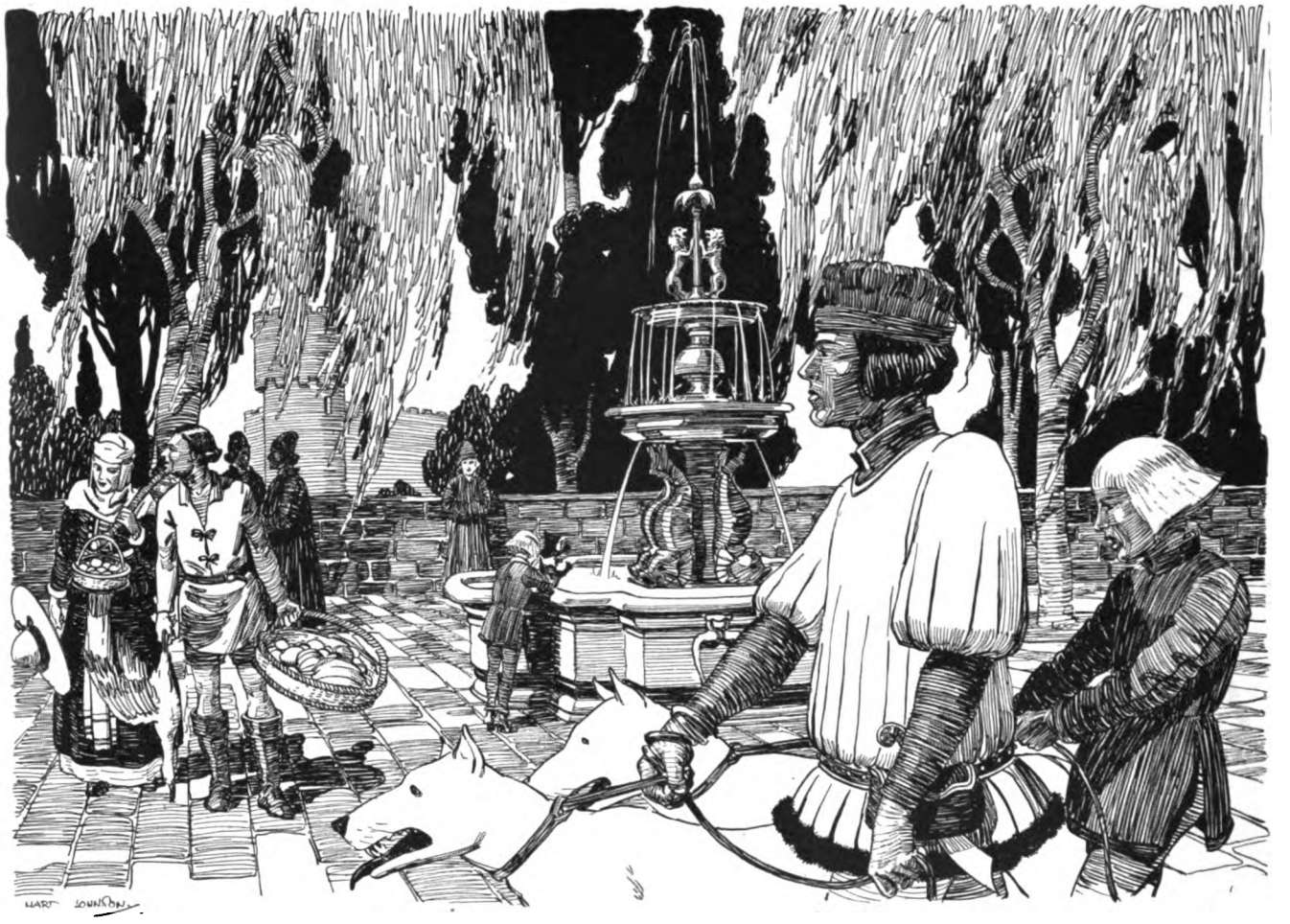
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The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve every particle of these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use.

MFMA

Floor *with* Maple
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General Contractors to the Kings of Europe

AFTER the Roman Empire fell into decay, civilization in Europe went rapidly down hill for hundreds of years. The plumbing business practically ceased to exist during the Middle Ages.

A new birth of interest was felt about the 12th century, which historians call the Renaissance period. In planning the public works of that time, fountains of various kinds were extensively used by contractors and builders. They took the form of imitation springs, jets of a single powerful stream, cascades made of basins placed one above another and hydraulic statues or fountains in which a concealed pipe supplied the water.

Here were conditions which called for a rebirth also of the plumbing industry. The skill of some of these early artisans must have been considerable because many of these fountains are still in operation in spite of the lack of materials possessing the uniformity of mixture found in electric furnace brass pipe such as Bridgeport Plumrite. You, too, can use materials today which will defy the ravages of dust and decay.

One of a series of advertisements outlining the early development of plumbing ideas. A complete folio of this History of plumbing will be sent on request.

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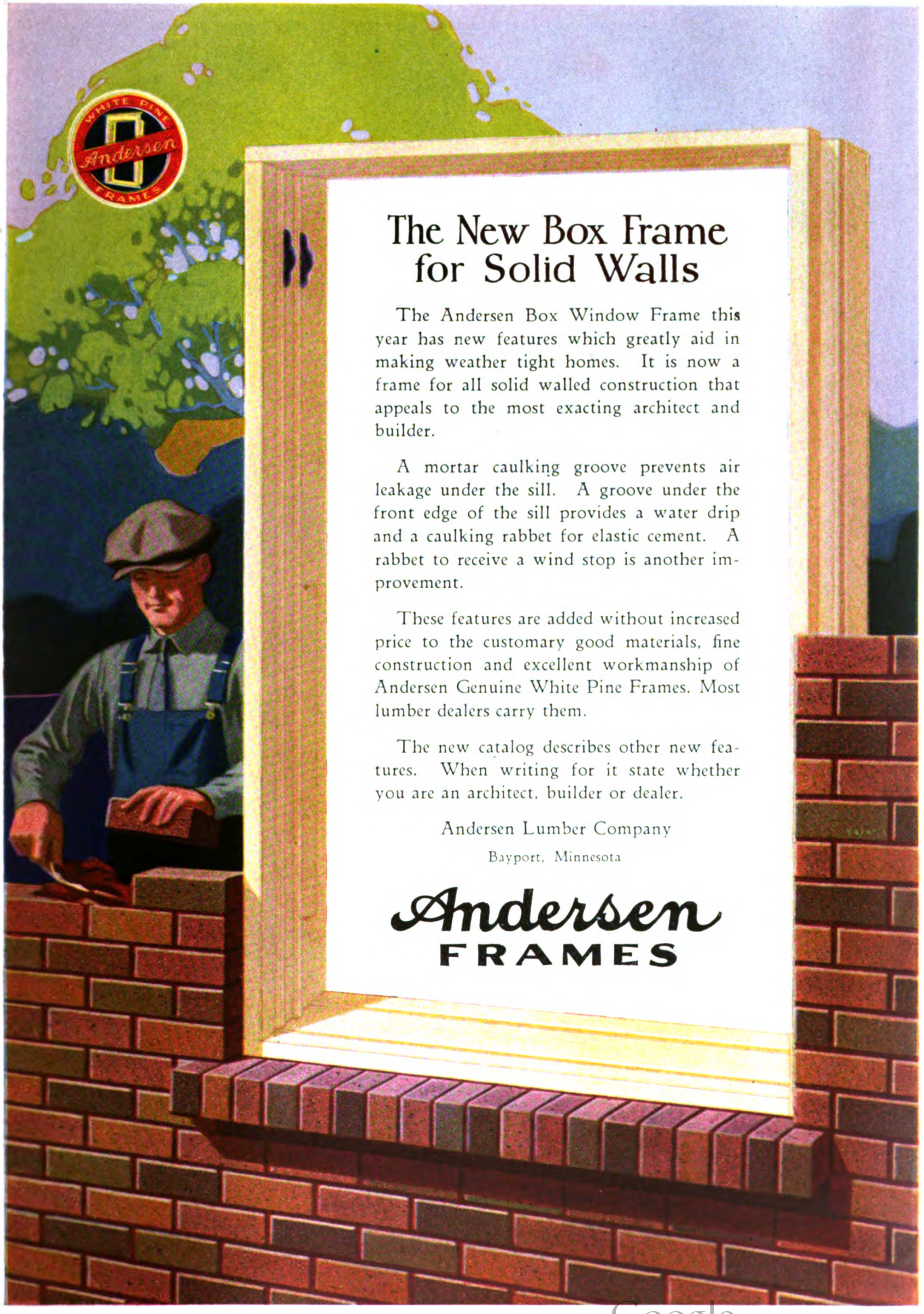


Electric Furnace Brass



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The New Box Frame for Solid Walls

The Andersen Box Window Frame this year has new features which greatly aid in making weather tight homes. It is now a frame for all solid walled construction that appeals to the most exacting architect and builder.

A mortar caulking groove prevents air leakage under the sill. A groove under the front edge of the sill provides a water drip and a caulking rabbet for elastic cement. A rabbet to receive a wind stop is another improvement.

These features are added without increased price to the customary good materials, fine construction and excellent workmanship of Andersen Genuine White Pine Frames. Most lumber dealers carry them.

The new catalog describes other new features. When writing for it state whether you are an architect, builder or dealer.

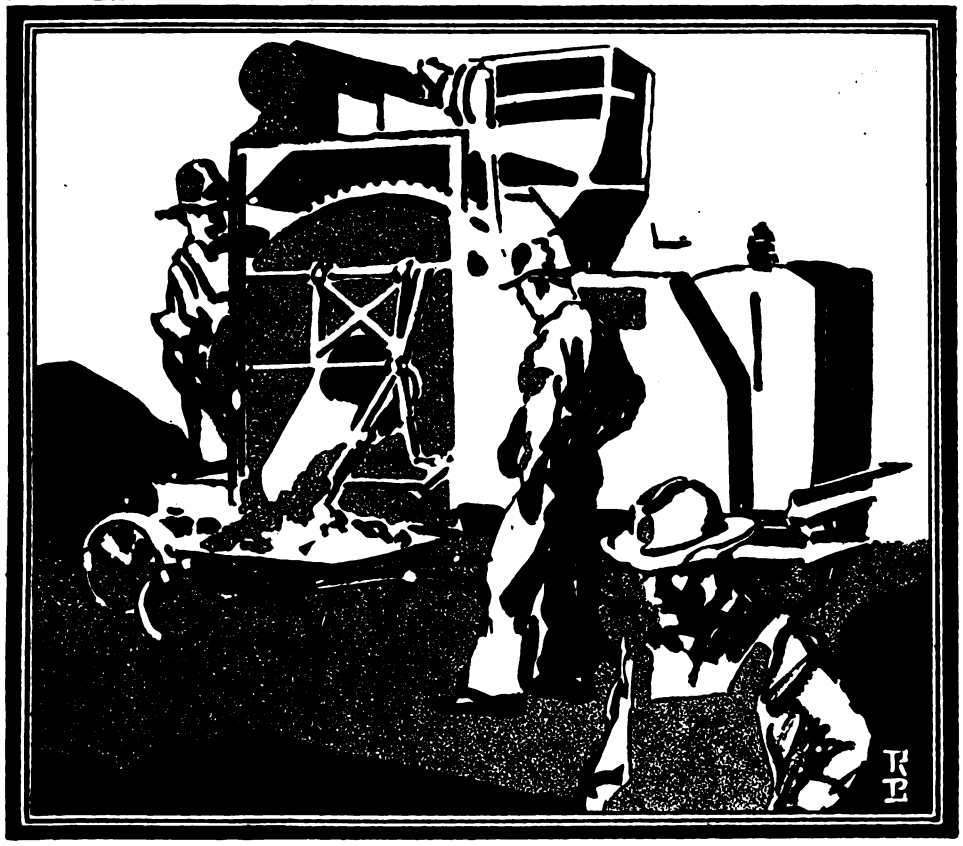
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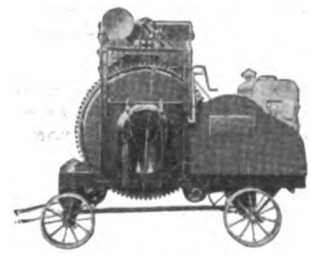
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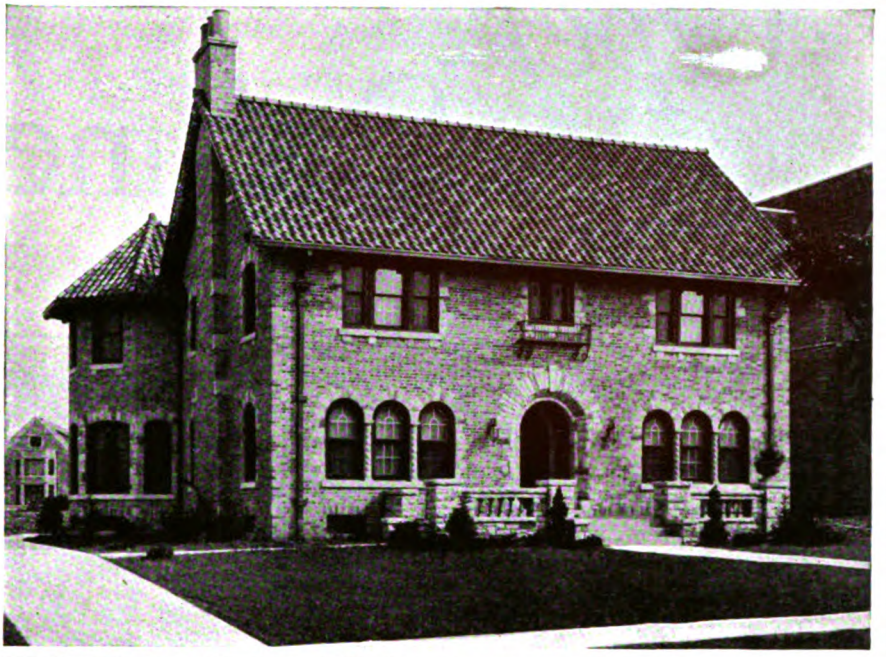
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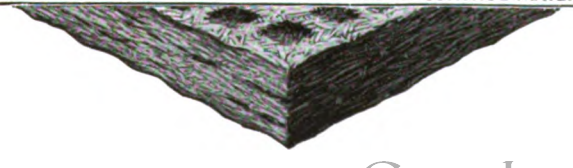
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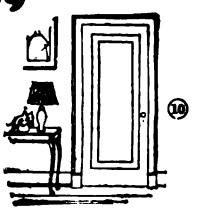
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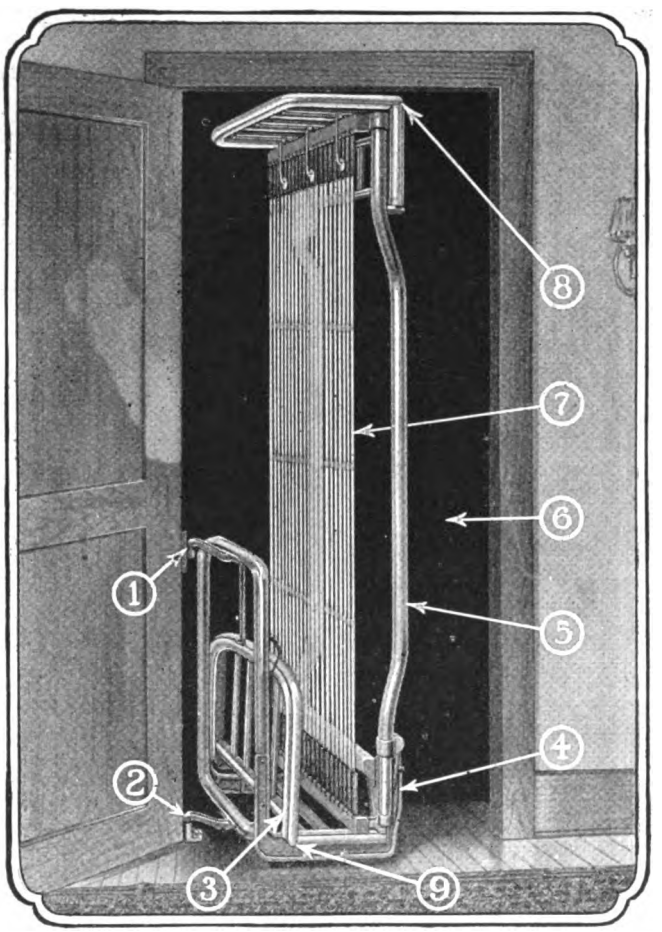




In those words was a magic that opened, to Ali Babi, the treasure cave of the Forty Thieves. There are, in apartments and houses, today, certain magical doors. In appearance, they are ordinary, standard, three-foot doors, Open one, and through it swings a luxurious, full-sized bed—built for pleasant dreams.

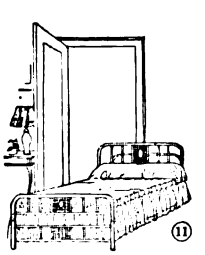
This bed—The Murphy In-a-Dor Bed—transforms comfortable, living room into cheery bed chamber, changes sun porch to open air sleeping place, doubling the usefulness of floor areas.

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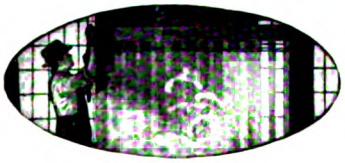
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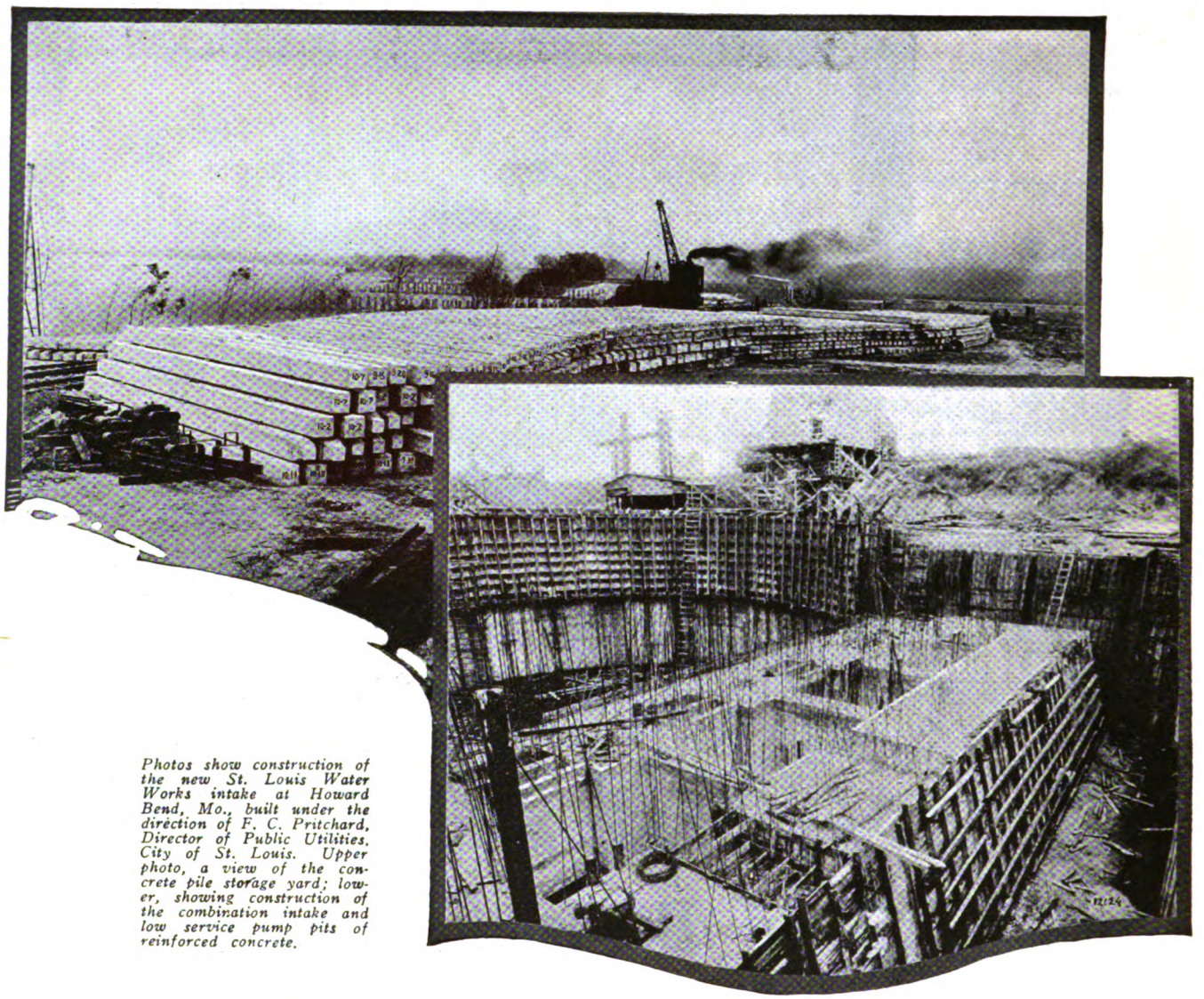
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Photos show construction of the new St. Louis Water Works intake at Howard Bend, Mo., built under the direction of F. C. Pritchard, Director of Public Utilities, City of St. Louis. Upper photo, a view of the concrete pile storage yard; lower, showing construction of the combination intake and low service pump pits of reinforced concrete.

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City_____ State_____
F. C. 105

CHAMBERLIN METAL WEATHER STRIPS
"SINCE 1893-THE STANDARD"

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LOCATING SPECIFIC MATERIAL



— some detail of a job being figured — usually wanted most when not at hand—can often be acquired quickly by referring to the Selected List of Manufacturers' Literature that appears in every issue of BUILDING AGE and NATIONAL BUILDER. See pages 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196 of this number.

These lists are comprehensive, and the carefully prepared catalogs and booklets of leading manufacturers contain specific information—exactly the sort you may need badly at times.

Consult the list, jot down the numbers wanted on the coupon, and the specified literature will be sent you promptly—free of charge.

Service Dept.

BUILDING AGE and NATIONAL BUILDER

243 West 39th Street **New York, N. Y.**

COUPON

BUILDING AGE AND NATIONAL BUILDER, 239 W. 39th St., New York.

Gentlemen: Please send me, without charge, unless otherwise noted, the booklets shown in your "Selected List of Manufacturers' Literature," the numbers of which I have noted below:

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

Name .....

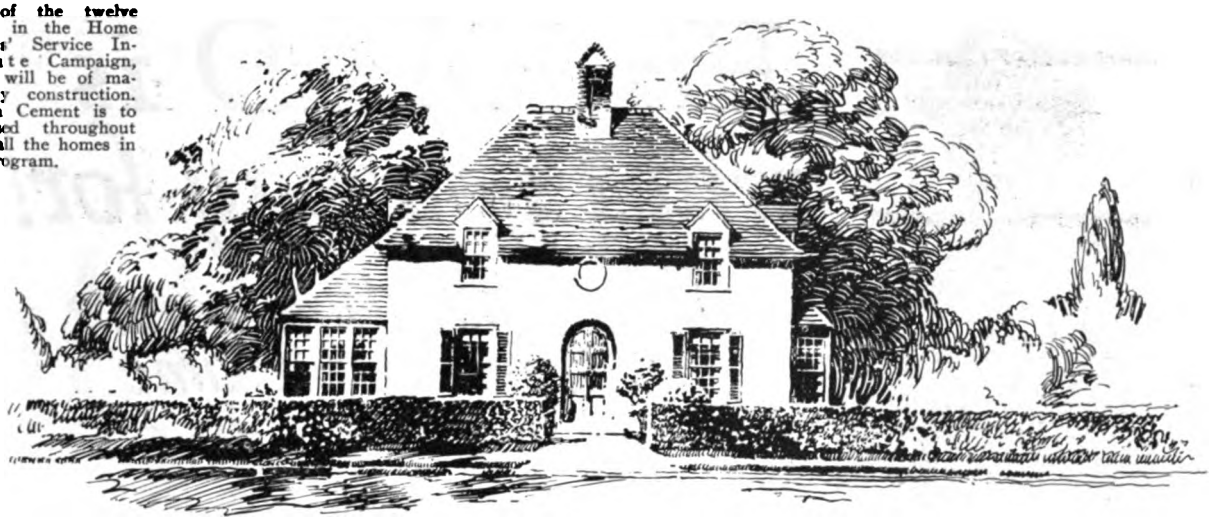
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Date .....

Occupation .....

7-26

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One of the twelve homes in the Home Owners' Service Institute Campaign, which will be of masonry construction. Lehigh Cement is to be used throughout as in all the homes in this program.

You will be thanked in years to come by the buyers of such homes

HOWEVER happy the owner of one of your homes may be at the time he takes possession, it is in later years when he decides that it has been a wise investment.

A masonry home, such as the one pictured above, assures an almost complete avoidance of painting and repair bills. These savings, as you know, mean a great deal to the man of moderate means.

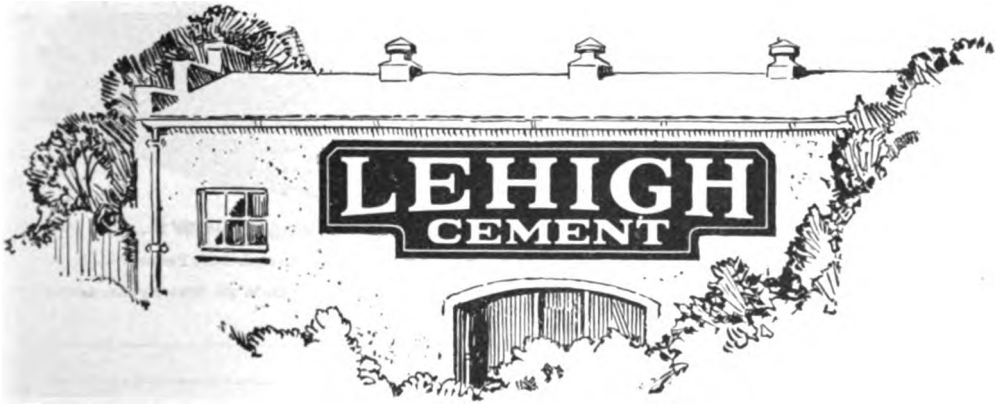
Twelve of the homes in the Home Owners' Service Institute Campaign, described in the accompanying pages, will be built of this permanent, fire-safe construction.

Consider what the present buyers of the homes you build will think of their investment twenty years from now. Masonry construction promises permanent satisfaction—and that is what they hope for.

LEHIGH PORTLAND CEMENT COMPANY

Allentown, Pa. **Birmingham, Ala.** **Chicago, Ill.** **Spokane, Wash.** **New York, N. Y.**

Other Offices in Principal Cities throughout the United States



Buy from the dealer who displays the Blue-and-White Lehigh Sign to be sure of prompt deliveries of this uniform, quality cement.

20 MILLS FROM COAST TO COAST

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His HEAD is what you pay for!

Why make him waste a third of his time on muscle jobs?

TODAY'S high labor costs make it mighty hard to show a profit if you let skilled workmen do jobs that the DeWalt Electric Carpenter will do six times quicker and cheaper. After a carpenter thinks out and lays out the work it's foolish for him to push the saw—at full carpenter wages—when electricity will do it for about 3 cents an hour.

On the average small frame house, where carpenter work ordinarily would total $600, the De Walt is saving $150 for a builder in Bridgeton, N. J. (Name on request.)

The DEWALT Electric Carpenter

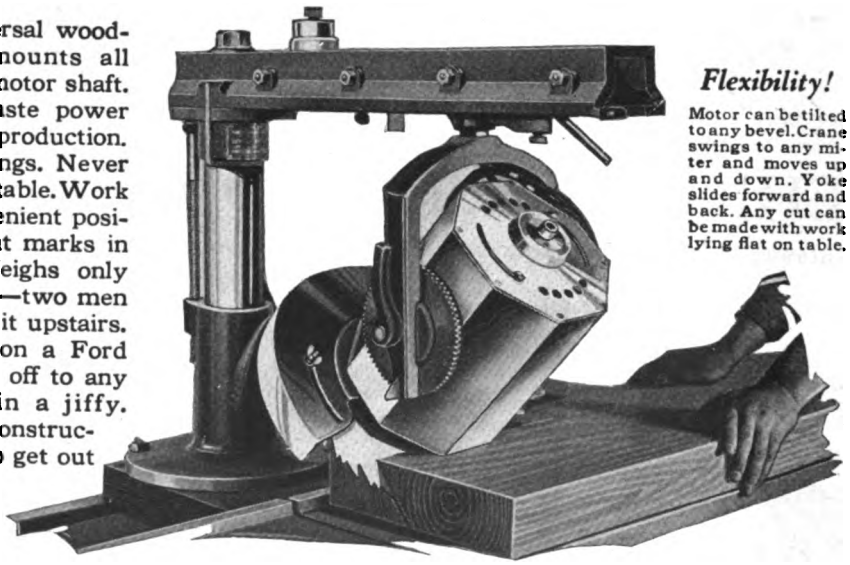
What It Does

Cross Cutting
Ripping
Mitering
Beveling
Matching
Polishing
Mortising
Tenoning
Moulding
Fluting
Dadoing
Routing
Sanding
Panel Raising
Turning
Boring
Grinding
Shaping

Six Times Faster

The only universal woodworker that mounts all tools direct on motor shaft. No belts to waste power and slow up production. Only two bearings. Never any need to tilt table. Work always in convenient position, with layout marks in plain view. Weighs only 240 to 265 lbs.—two men can easily carry it upstairs. You can lift it on a Ford truck and whiz off to any building job in a jiffy. Simple, sturdy construction—nothing to get out of order. Operates from any lamp socket. Made in 4 sizes, ½ H.P. to 4 H.P., with cutting capacities from 1" to 5".

DeWalt Products Co.
Leola, Penna., U. S. A.



Flexibility!

Motor can be tilted to any bevel. Crane swings to any miter and moves up and down. Yoke slides forward and back. Any cut can be made with work lying flat on table.

Get the Facts! Mail Coupon NOW!

DEWALT PRODUCTS CO., 402 Holland Ave., Leola, Penna., U. S. A.

We want a showdown! Send proof that the DeWalt Electric Carpenter will save money for US.

Individual.....

Firm.....

Address.....

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at last—the name:

Masonite
MANUFACTURED LUMBER FOR

STRUCTURAL INSULATION

HERE and there, head and shoulders above and apart from the commonplace, certain few products earn a high place through the greater service they render to mankind.

Masonite will be one of these. The name Masonite is destined to be known well among architects. Masonite the product will be respected by all who use it. For this is truly the STRUCTURAL INSULATION of the Future! It is ALL WOOD, not a substitute.

* * *

With scientists pausing at the very brink of a great new discovery, it remained for one inventive genius to develop the process of exploding wood by firing it from guns under high steam pressure. This man is W. H. Mason, after whom Masonite is named.

By Mason's process, a perfected all wood manufactured lumber is now being made, ideally suited to STRUCTURAL INSULATION. Architects already endorse it.

Two important factors will make Masonite a leading building product: (1). Its merit. (2). The men* behind it.

Let us send you a sample. See how its greater structural strength makes Masonite *ideal sheathing*. Examine the smooth, grainless surface, ready for interior decoration; and the somewhat rougher reverse surface, a perfect plaster base. Send for sample and the whole story—today.

Mason Fibre Company
Dept. 209 111 W. Washington St.
Chicago, Illinois

The men behind Masonite, officers and directors of the Mason Fibre Company, are listed below:

* * *

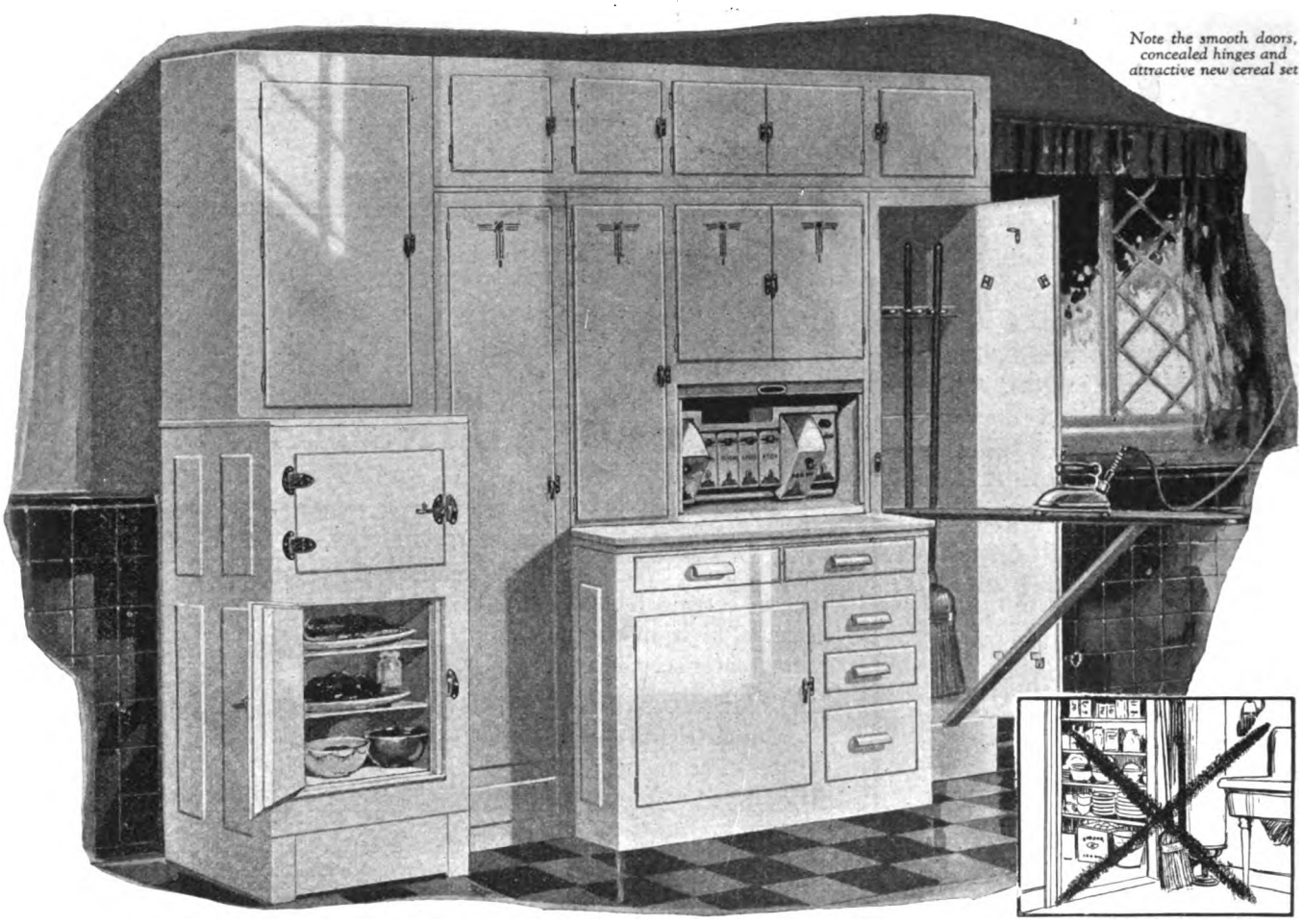
S. B. BISSELL, Treas. Wausau Southern Lumber Co., Treas. Marathon Lumber Co.; W. H. MASON, inventor of the process; BEN ALEXANDER, Vice-Pres. Silver Falls Timber Co.; AYTCH P. WOODSON, Sec. Yawkey-Bissell Lumber Co., Sec. B. C. Spruce Mills, Sec. Wausau Southern Lumber Co., Sec. Marathon Lumber Co.; BROWN KATZENBACH, C.P.A.; CHARLES GREEN, Pres. Eastman, Gardiner & Co.; M. P. McCULLOUGH, Vice-Pres. Brooks & Ross Lumber Co., Vice-Pres. B. C. Spruce Mills; A. J. GLASSOW, Mgr. Wausau Southern Lumber Co., D. C. EVEREST, Sec. and Gen. Mgr. Marathon Paper Mills Co.; R. G. WALLACE, Gen. Sales Mgr. formerly Vice-Pres. and Gen. Sales Mgr. National Fireproofing Co.

Send for a sample *TODAY*!

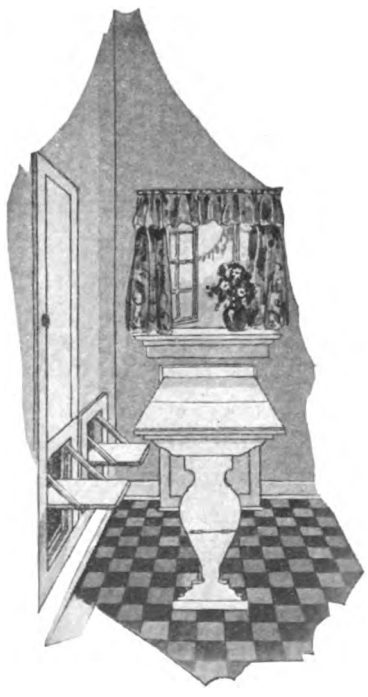
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KITCHEN MAID

STANDARD KITCHEN UNITS



Note the smooth doors, concealed hinges and attractive new cereal set



The Pulmanook

Consists of table and two or four chairs. Folds easily and quickly into wall

These units replace the pantry . . . completely!

Never has the completeness of the Kitchen Maid line meant more in kitchen planning than today. With the latest trends eliminating the pantry these units have become the simple efficient, logical solution of the modern kitchen equipment problem.

Kitchen Maid Units include everything from kitchen cabinet to Pulmanook; from refrigerator to broom and dish closets; from folding ironing board to linen cupboards. Each unit is complete in itself; it can be used alone or in combination with any other units. Beautiful in design, substantial in construction, built with sanitary rounded inside corners and smooth panel doors—these units are a real source of satisfaction to every woman owning them.

Fine as they are, Kitchen Maid Units cost no more than old-fashioned cupboards. You will profit, in money and good will, by installing them in your kitchens. Mail coupon for catalogue, dimensional drawings, special prices.

WASMUTH-ENDICOTT COMPANY
1509 Snowden Street, Andrews, Indiana

"Let the Kitchen Maid Be Your Kitchen Aid"

KITCHEN MAID
STANDARD UNIT SYSTEMS

WASMUTH-ENDICOTT CO.
1509 Snowden St., Andrews, Ind.
If in Canada, Address Branch Office, Waterloo, Ont.
Please send catalogue and full information about Kitchen Maid Units to:

Name .....

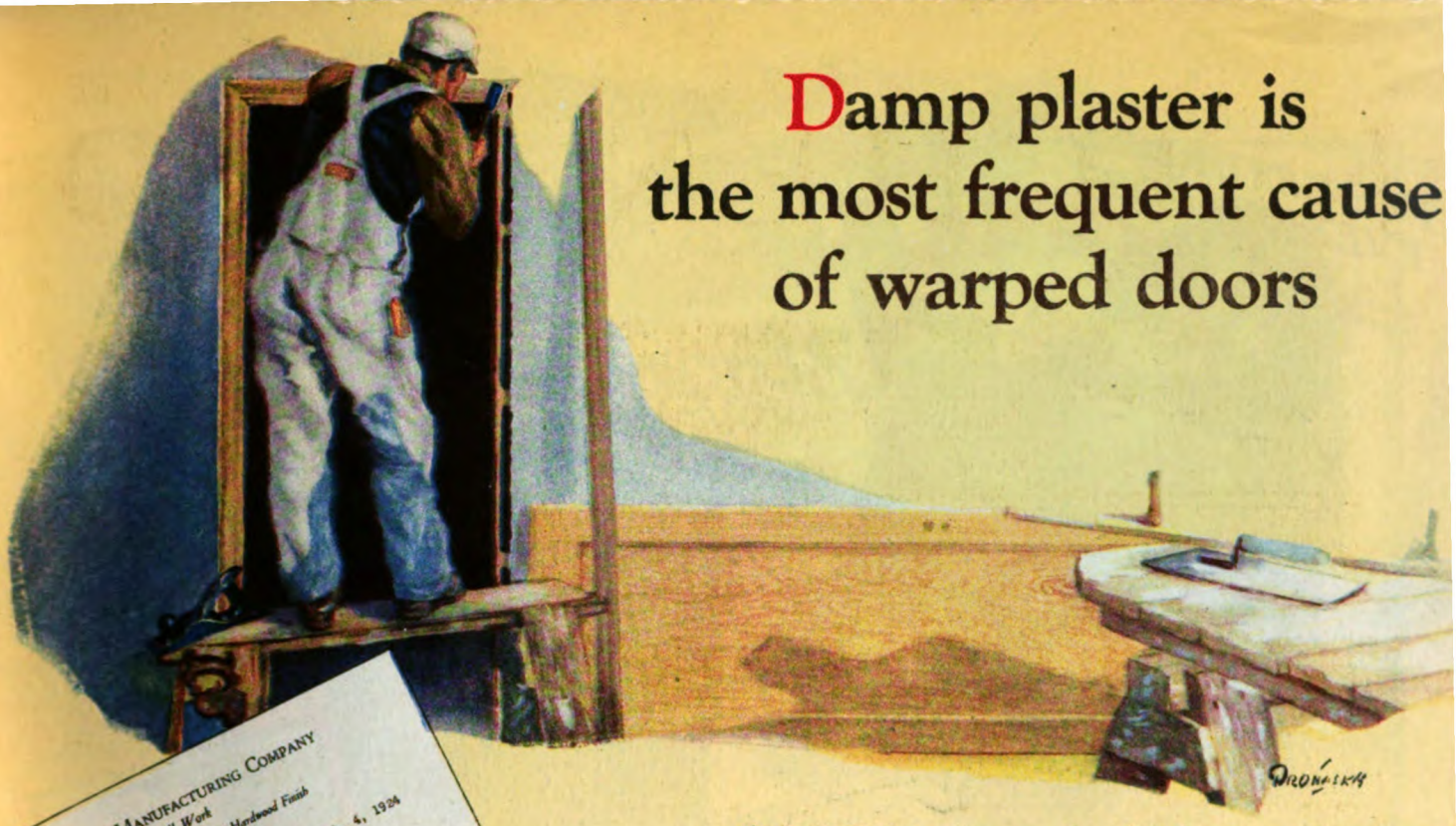
Address .....

City ..... State .....

KITCHEN MAID EQUIPMENT USED IN ALL MODEL HOMES BUILT BY HOME OWNERS INSTITUTE

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Damp plaster is the most frequent cause of warped doors



LANNOM BROTHERS MANUFACTURING COMPANY
Cabinet & Mill Work
Sash and Doors - Veneered Doors & Panels - Hardwood Finish
FIFTH AND MAGNOLIA STREETS
OAKLAND, CALIF.

Feb. 4, 1924

The Wheeler, Osgood Co.,
Tacoma, Washington.

Gentlemen:

Referring to our recent order for a carload of "Laminex" Fir doors, would ask that you ship this car at the earliest possible moment as our stock is badly broken.

You no doubt would be interested in our experience with your built-up doors which we have been using for the past several months. These doors have proven entirely satisfactory and have met with instant favor with our customers, having so many advantages over the regular type of door.

The feature that appeals to us most is the fact that we have found our old trouble of warped doors eliminated. While, of course the practice is highly undesirable, we have seen cases where these Laminex doors have been hung in a freshly plastered building, but, to our surprise and pleasure, the doors showed no tendency to warp, or be affected in any way.

It is with pleasure that we recommend your product most highly.

Yours truly,
Lannom Bros. Manufacturing Co.
by E. W. Lannom Mgr.

CHL

"...we have seen cases where these Laminex doors have been hung in a freshly plastered building, but, to our surprise and pleasure, the doors showed no tendency to warp..."

"WHY is the usual solid door so apt to warp and wind?" We questioned architects and contractors in numerous cities. We asked for statements of actual happenings.

Some 1900 experiences were told... instances of doors that warped... and practical opinions giving the reasons. Nearly every one named *wet plaster* as the most frequent cause of warped doors. Other frequent causes given were: "Doors facing dampness on one side and artificial heat on the other"; "Houses closed up for long periods while damp"; "Doors warping through dampness in transit."

There are many other causes, as every builder knows—causes that cannot always be prevented—natural conditions that are bound to do damage to ordinary doors.

To withstand these conditions a door needs more than plywood panels. The mischief is found in stiles and rails which, in ordinary doors, have no supporting "backbone." This is notably true in the one- and two-panel doors now so widely used.

In every Laminex door, the stiles and rails are built-up on a core of interlocking blocks with the grain crossed in adjoining sections. All parts are welded with a wonderful waterproof cement; then placed under tremendous hydraulic pressure for 24 hours.



The famous soaking test, as originated by Prof. Bror L. Grondal, proving that Laminex is unaffected by moisture. Under this sensational test, repeated in all parts of the country, no Laminex door has ever warped or come apart.

LAMINEX DOORS

WILL NOT SHRINK, SWELL OR WARP

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Laminex advertising is making the American public "door conscious"

Advertisements will appear during 1926 in 23,000,000 copies of leading national magazines

As the world's largest door manufacturer we first produced, in Laminex, a trouble-proof door and then adopted a permanent policy of letting the whole world know about it. And all down the line of merchandising we have taken the initiative in revolutionizing the method of marketing a door.

With the necessary equipment and ability to standardize and produce on a huge scale, we have leveled the price of Laminex doors to compete with doors made the common way. Thus leading jobbers in every center are able to maintain adequate stocks for instant delivery.

Laminex fills a definite need for a trouble-proof door. It is accessible through distributors everywhere for quick delivery. It is being advertised nationally to all the people. As a consequence, millions of Laminex doors are already in use. These are satisfying owners and helping builders and realtors to sell their houses. Mr. E. P. Janes, large building operator of Altadena, California, said, when ordering Laminex doors for 309 houses: "A nationally advertised and widely known product like Laminex, greatly assists in making sales."

Laminex doors in all popular styles with *vertical grain* stiles and rails or all-flat grain, may be had at leading jobbers. Write for our "Help-You-Sell" plan and sample of Laminex wood to test. Sales Offices: New York, Chicago, Memphis, Los Angeles, San Francisco, Spokane. Foreign: Woco Door Company, London; E. J. Van de Ven, Paris; Paul Solari & Co., Genoa.

All genuine Laminex doors bear the Laminex guarantee label

THE WHEELER, OSGOOD COMPANY
TACOMA, WASHINGTON

THE WHEELER, OSGOOD COMPANY
TACOMA, WASHINGTON

Gentlemen: I would like to know more about Laminex Doors. Please send catalog and sample of Laminex Wood, so that we can make our own tests.

Name .....

Address .....

City ..... State .....

I am a dealer ☐ contractor ☐ architect ☐

LAMINEX DOORS

Will not shrink, swell or warp

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LITHOGRAPHED IN U.S.A.

Better Work—Bigger Profits For Floor Sanders

You can do a quality job with less effort and in less time with the *Master Floor Sander.*

Simplest, fastest, easiest to operate and most durable of any Sander on the market.

A one-man machine that can be operated even with one hand and can be easily carried up and down stairs.

A wonder for close work in closets and around sinks.
Few working parts to wear out—Motor detachable.

Does a smoother, better job and does it faster.

Satisfied users are enthusiastic over the results they are getting with the Master, reporting more and better work done and larger profits.

The Master Floor Sander

Get all the facts about the Master. Clip and mail the coupon below and all information about this wonderful machine, including terms of purchase, will be sent you. No obligations.

MASTER WOODWORKER MANUFACTURING CO.
612 BRUSH STREET DETROIT, MICHIGAN

Send me your floor surfacing information showing me how I can buy a Master Floor Sander on small payments, allowing machine to pay for itself.

*Name*_____ *Address*_____

*City*_____ *State*_____

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The XIVth Century calls to the artist in every artisan

To the builder's love of beauty, the charm of old Italy stands forth in Graybar's Florentine lighting fixtures.

The rich beauty of these lighting units fits them for hallways, entrances and wherever there is need for lighting fixtures of dignity—and quality.

The Florentine fixtures are only one group of Graybar's complete line of residential and commercial fixtures. The same quality as Graybar wiring supplies, lighting units, conduit, outlet boxes, switches — everything the builder needs in a hurry for electrical work of lasting beauty and satisfaction.

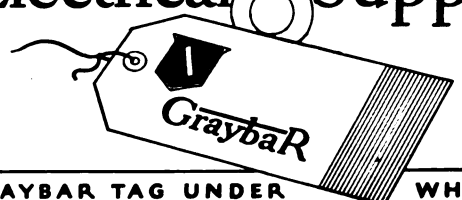
OFFICES IN 58 PRINCIPAL CITIES
EXECUTIVE OFFICES 100 East 42nd St., NEW YORK

In Graybar's line of Florentine lighting fixtures there is a unit for every need, all bright with the decorative spirit of the Italian Renaissance — just one of Graybar's complete lighting lines.

GraybaR

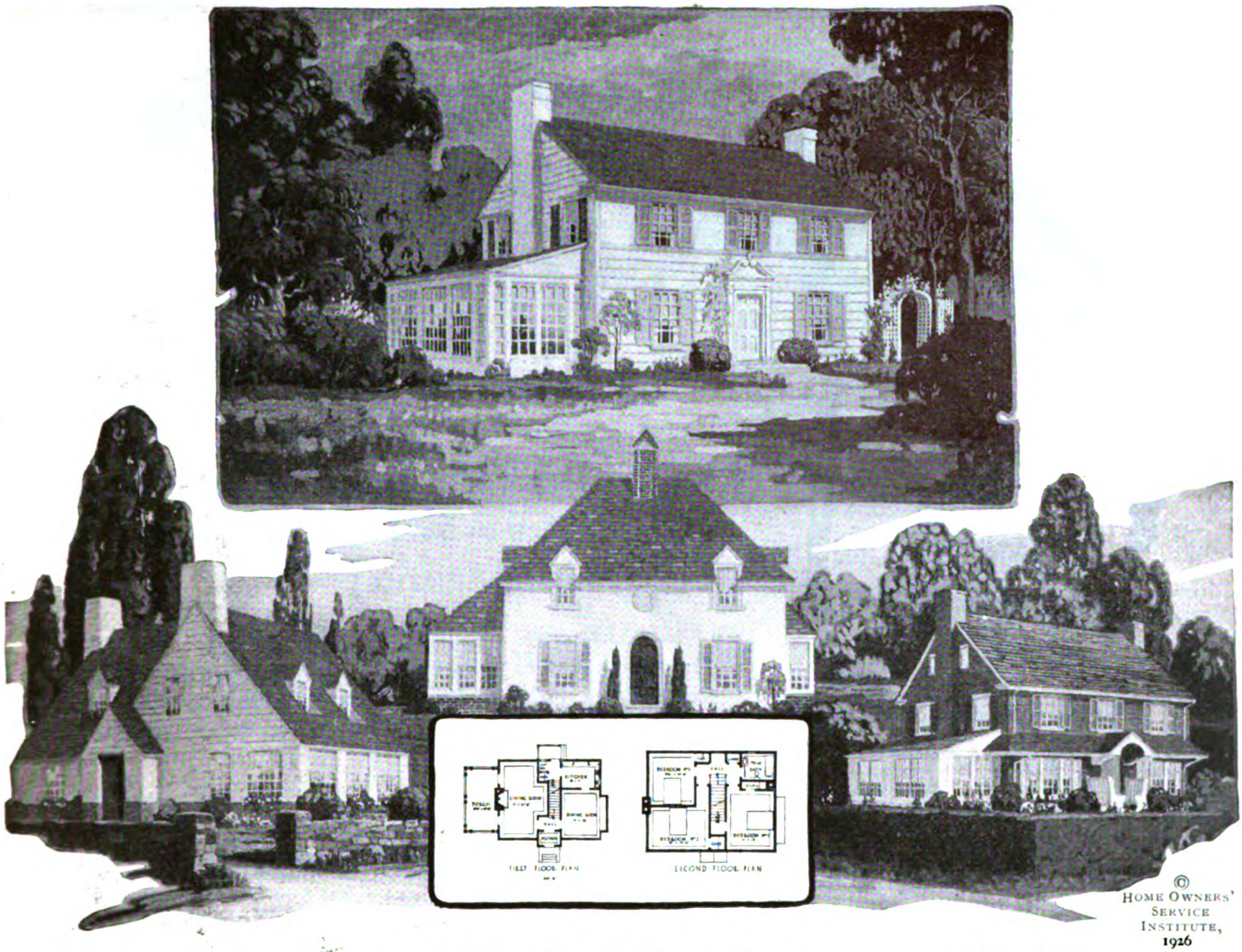
Successor to Western Electric Supply Dept.

Electrical Supplies



THE GRAYBAR TAG UNDER WHICH 60,000 QUALITY ELECTRICAL SUPPLIES ARE SHIPPED

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© HOME OWNERS' SERVICE INSTITUTE, 1926

There is *more profit* in building better specified homes

These Model homes built and equipped with

Blue Star Installation Domestic Gas Appliances — AMERICAN GAS ASSOCIATION

Anaconda Brass Pipe, Copper Gutters, Leaders, Flashings and Bronze Wire for Screens — THE AMERICAN BRASS COMPANY

Corto Radiators—Ideal Arco Boiler—Arco Hot Water Tank — AMERICAN RADIATOR COMPANY

Muralia Wall Papers — BAECK WALL PAPER COMPANY

True-Tye Bridging and Steel Forms for Concrete Construction — BLAW-KNOX CO.

Celotex Insulating Lumber — THE CELOTEX COMPANY

Brick — COMMON BRICK MANUFACTURERS ASSOCIATION OF AMERICA

Nairn Gold Seal Inlaid Linoleum — CONGOLEUM-NAIRN, INC.

Locks and Builders' Hardware — P. & F. CORBIN

Plumbing Materials — CRANE CO.

Radio Receiving Sets and Equipment — THE CROSLEY RADIO CORPORATION

Fenestra Casement and Basement Steel Windows — DETROIT STEEL PRODUCTS CO.

Tontine Window Shades, Duco Furniture Finish, Rug Anchor — E. I. DU PONT DE NEMOURS & CO., INC.

Fairfacts China Bathroom Accessories — THE FAIRFACTS COMPANY, INC.

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Graybar Clothes Washer — GRAYBAR ELECTRIC COMPANY, INC.

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Kernerator Chimney-Fed Incinerator — KERNER INCINERATOR COMPANY

Lehigh Portland Cement — LEHIGH PORTLAND CEMENT COMPANY

Long-Bell Trade-Marked Lumber and Oak Flooring — THE LONG-BELL LUMBER COMPANY

The Minneapolis Heat Regulator for Coal, Gas, Oil — MINNEAPOLIS HEAT REGULATOR CO.

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Miracle Doors — PAINE LUMBER COMPANY, LTD.

Richardson Multicrome Roofs — THE RICHARDSON COMPANY

Riddle Decorative Lighting Fitments — THE EDWARD N. RIDDLE COMPANY

Servel Electric Refrigeration — THE SERVEL CORPORATION

Smoothtop Gas Range — STANDARD GAS EQUIPMENT CORP.

Valspar Varnishes, Varnish Stains, Enamels — VALENTINE & COMPANY

Kitchen Maid Standard Unit System of Kitchen Equipment — WASMUTH-ENDICOTT COMPANY

Under the supervision of

HOME OWNERS' SERVICE INSTITUTE · INC.

L. PORTER MOORE, President

THE PURPOSE of this nation-wide movement is to educate the home seeker toward the value of specifying the *best* in building materials and equipment. Standard products, always available locally, of known value, trade-marked and advertised, please your home building clients. Build well from such specificatioms, for greater success.

It will pay you to visit the nearest home, if possible, and see for yourself how this movement is helping *you*. There are thirty-six "model" homes, each publicly demonstrated, and nationally advertised to millions. Watch the newspapers for details.



HOME OWNERS' SERVICE INSTITUTE, INC.

Dept. T-14 441 LEXINGTON AVE. NEW YORK CITY

I enclose ten cents in stamps for one copy of "A Manual of Home Building."

I enclose $3.00 in cash, check or money order, for Vol. 1, "The Books of A Thousand Homes."

Name.....

Address.....

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Short Cuts for Builders!

A New Handbook! Built for Practical Builders! Designed to Save Time and Money! Best Dollar Buy in America!

Two Hundred and Fifty Short Cuts, every one practical; every one tested; every one unusual; every one helpful on the daily job; any one worth ten times the price of the book when applied to your work.

Here, gathered in one volume, profusely illustrated, are the hard won experiences of hundreds of practical men who have used these kinks in their own work and proved them time and money savers.

Here are new and quicker ways of doing old jobs that come up in your everyday experiences. Here is help — real help — not theory. Every idea in the book is practical; has been used.

Why should you take an hour on a piece of work when somebody else has found a way to do it in 25 minutes and that way is shown in this book? Not once but many, many times during the year you will be able to utilize the suggestions this book offers. If you only find *one* kink that you can apply to your work the price of the book will be returned to you over and over.

We don't want you to pay a cent for Short Cuts for Builders unless you are thoroughly satisfied that it is worth *more* than the price charged.

Therefore we will send it to you on approval. Keep it 5 days. Examine it thoroughly. If you are not wholly satisfied, return it within 5 days and your money will be refunded at once.

It cost us $5,000 just to compile this practical work. Out of a mass of stuff we had to pick and choose the best and put it into shape for your use. Therefore we have every confidence in it and in its helpfulness to you. Hence our faith in the book and our willingness to refund your money at once if you wish it.

Fill in and mail the coupon *today*. Just pin a dollar bill to it. We'll take the chance. But do it TODAY!

Partial List of Contents

Plans that can't be lost. A convenient blueprint box. A handy bench. Short cut in veneering. Making odd size doors. Emergency drill press fastening. Steep plank walk. A fixed hod rest. A convenient putlog support. Getting power for a concrete mixer. Material elevator for apartment house. Home-made brick hod. Ladder scaffold bracket. Steel worker's scaffold. Novel stone cart. Simple mason's scaffold. Storing glass. Piling cut stone. Protecting unfinished brick wall. Shed for storing face brick. Contractor's sign. A portable sign board. Convenient lime storage pit. Protecting brick from stucco stains. To keep sand from spreading. A way to pile tile roofing. Bracing walls in a frame building. Aid for holding door frames. To lay hard wood flooring using short pieces only. Fixing door frames firmly at the base. Framing for a telephone opening. Framing for a false beam ceiling. Nailing a tin siding corner. Framing for an ornamental statuary niche. Roughing in for a tile floor. Tools for making raked joints in brick work. Soldier course corners. Damp proofing with hollow tile. Ornamental joints in rough masonry walls. Shoring support for stone sill. Protect your cut stone. Formwork for a concrete cistern head. Reinforced concrete flower box support. Measuring cement for small mixer. Bonding a bumping post to a concrete floor. Formwork for a circular concrete terrace. Scaffolding for stucco work. Plastering for a "no trim" window. Framing for a coved ceiling. A slate roofer's stake. An aid in shingling valleys. A simple way of hanging sheet metal gutters. A roofer's scaffold. Soil pipe in narrow wall. Covering hot water pipes. Sizes of water supply pipes. Piping for future needs. Placing radiators. Registers in narrow wall. Holding bell wires together. Placing the meter box conveniently. A paint brush holder. A painter's scaffold. Patch for broken plate glass window. An underpinning well. Rollers for house moving.

Size 6x9. 160 Pages. Fully Illustrated.

Price $1.00

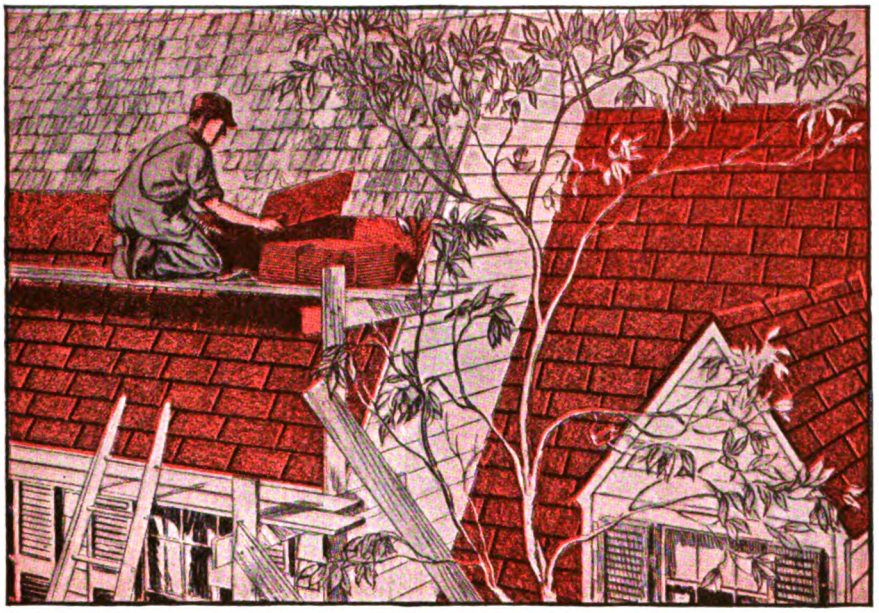
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BUILDING AGE and NATIONAL BUILDER

243 WEST 39th STREET NEW YORK, N. Y.

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BIRD'S ROOFS



Bird's Roofs—
a roof for every type of building

AUTUMN, with winter just around the corner, is the logical time to direct the attention of the home owner to re-roofing. Bird's Roofs go right over the old wooden shingles giving a strong double roof that is weather tight under the most extreme conditions.

Bird Roofs offer a wide variety from which to make a selection—A *roof for every type of building.* And, no matter which Bird Roof is the selection, you will find it a roof that is easy to lay—a roof that has long life due to its weather and fire resisting qualities—a roof that is handsome in its colors of Red, Green, Blue-Black or Art-Blende[a combination of russet tints]. Bird & Son, inc. were established in 1795—131 years of manufacturing experience that is your insurance as to the quality of all Bird Roofing materials.

Ask your local dealer or write direct to us for detailed information regarding Bird's Asphalt Slate-Surfaced Shingles and the complete line of Bird's roofs, Waterproof Building Paper, Wall Board, Plastic Cement, and Roof Coatings.

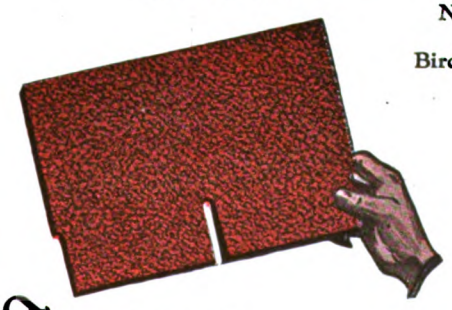
Bird's dealers can furnish Hail and Tornado Insurance on Bird's Roofs at a minimum cost.

BIRD & SON, inc., East Walpole, Mass.
Established 1795

Chicago Office and Plant:
1472 West 76th Street

New York: 295 Fifth Avenue
Canada:
Bird & Son, Ltd., Hamilton, Ont.

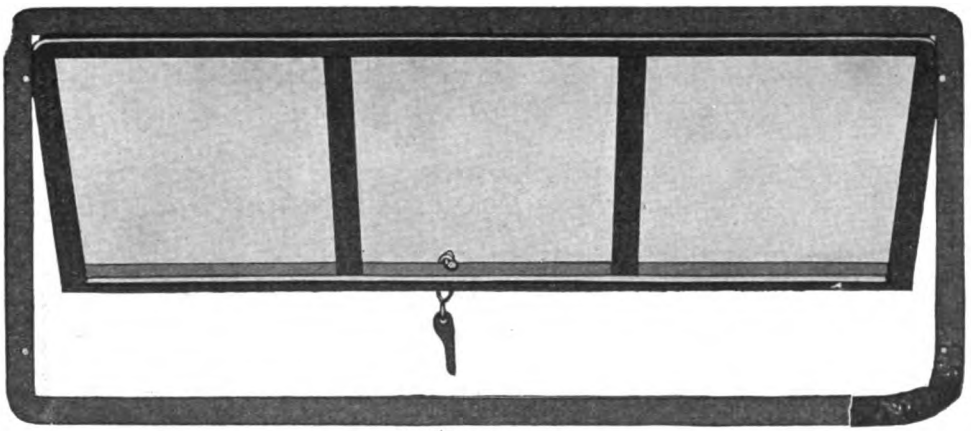
- Bird's Neponset Black Building Paper
- Bird's Wall Board
- Bird's Neponset Rugs and Floor Covering



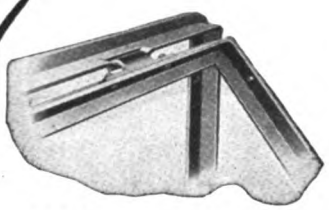
The one man one hand shingle!

- Bird's Twin Shingles
- Bird's Four-in-one Shingles
- Bird's Shingle Design Roll Roofing

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Solving the Steel Sash Problem



SPECIAL HINGES

Ventilators are attached to frames by ingenious hinges. To remove ventilator for glazing or cleaning, simply tilt it and pu'l it in. No tools needed; and no hinge-pins or rivets need be removed.

No More Fear of your estimates being too high NATIONAL prices will help you to land the job

A High Class Steel Window Selling at a Popular Price

When you figure on medium priced homes you can estimate with steel sash basement windows at a price that will clinch the job.

National Windows have many features which make them first choice with careful builders. No steel window is simpler in design or better made.

Frame is one-piece built of ⅛ inch steel bar with no possibility of it rocking out of shape. Ventilator is made of two pieces with effective drips and weathering to insure a weather tight window, with complete ventilation and interchangeable for same size frames.

We manufacture a complete line of Basement, Factory and Garage Windows of standard types and sizes for all purposes.



NATIONAL STEEL PRODUCTS CO.

6900 S. Water Street
ST. LOUIS, MO.

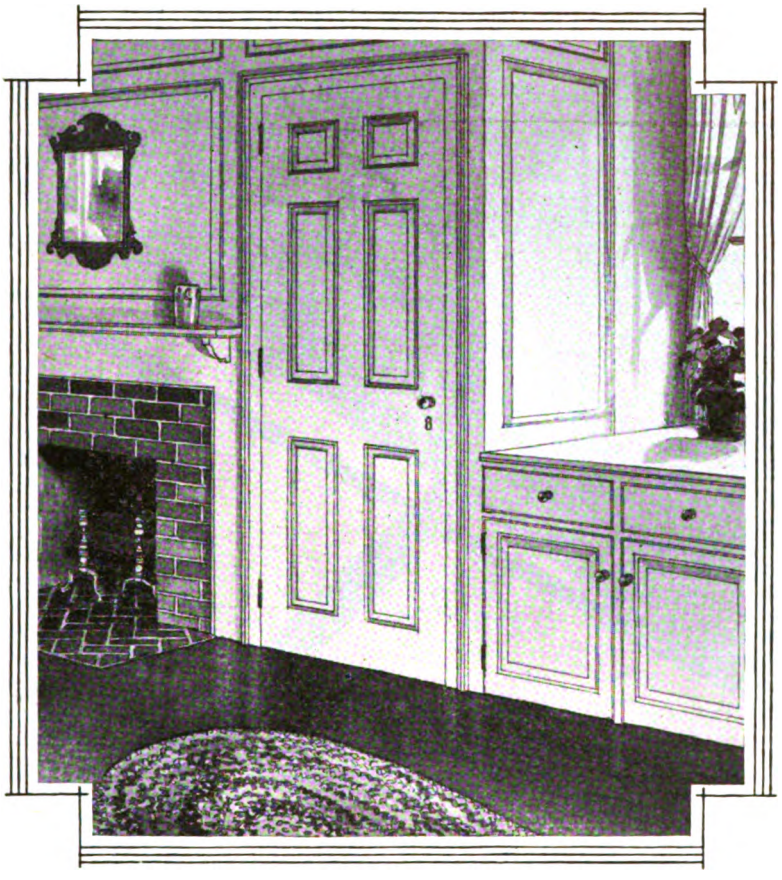
Write at once for our Dealer Proposition

We want agents everywhere

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SARGENT

LOCKS AND HARDWARE



No other hardware is so widely approved as that of solid brass or bronze

BRASS, bronze, copper. Look at the use of these enduring metals in homes today. Not only in expensive homes, but in the operation type built to sell for as low as nine or ten thousand dollars, or even less.

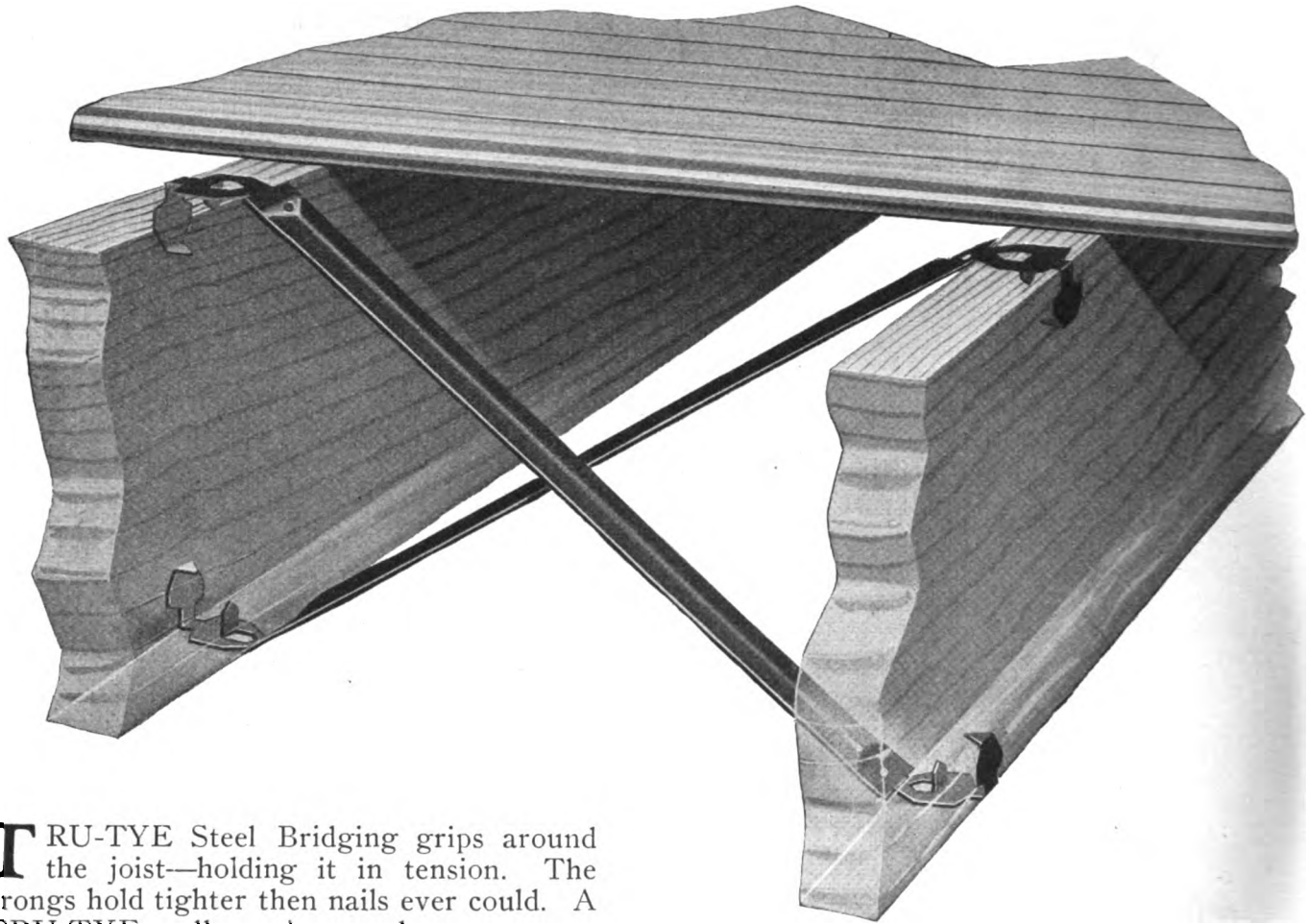
Certainly locks and hardware are as important as down spouts, roof gutters or plumbing pipes. Home buyers have come to think so! They realize that door and window equipment must be solid brass or bronze if it is to retain its beauty, convenience and security. Builders are following the popular demand. Many of their prospectuses list prominently: "Hardware of genuine brass and bronze!"

Sargent locks and hardware of solid brass or bronze are the choice of so many architects, builders and home owners because they have proved their worth in years of service, because they are adapted to every requirement, because they insure greater satisfaction at but little increase in building cost. Choose them. Representative dealers in all cities. Sargent & Company, *Hardware Manufacturers*, 52 Water Street, New Haven, Conn.



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TRU-TYE



TRU-TYE Steel Bridging grips around the joist—holding it in tension. The prongs hold tighter then nails ever could. A TRU-TYE really can't come loose.

Installation is a matter of seconds—ten times faster than wood bridging. A carpenter can install a TRU-TYE while he is reaching for nails for wood bridging.

A few sharp blows with a hammer and TRU-TYE holds with a bulldog grip.

Users of TRU-TYE Steel Bridging are enthusiastic. Economy and speed of installation are indicated in many letters received from contractors. Grimm Brothers, Canonsburg, Pa., say—"a great saving of labor in installation and a neater and stronger job."

Samples of TRU-TYE Steel Bridging will be sent to contractors, dealers, architects or carpenters, upon request. Inspection and trial of TRU-TYE Bridging will convince you of its merit.

BLAW-KNOX COMPANY

629 Farmer's Bank Bldg., Pittsburgh, Pa.

BLAW-KNOX

BLAW-

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Steel Bridging



KNOX

BLAW-KNOX

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A charming HARTMANN-SANDERS entrance for $190*

Happily blending rich dignity with warm hospitality, this beautiful entrance harmonizes perfectly with almost any type of architecture.

Its turned urn, hand-carved rosettes, classic entablature and trydeglyphs, fluted pilasters, raised panels, moulds and leaded glass—all are eloquently expressive of the artistic, and create a delightful ensemble. Built complete, ready to set in place.

Scores of other Hartmann-Sanders Entrances can be built to your specifications or ours. All are stabilized by patented Koll Lock-Joint Columns. They add value to any home far beyond their low cost.

Investigate. Address Hartmann-Sanders Co., 2170 Elston Ave., Chicago, Ill.; Eastern office and showroom, 6 E. 39th St., New York City.



Send for Free Book

New 32-page book shows the above entrance and many others. Sent free on request. Or send 30 cents for additional Catalog D-34 of pergolas, lattice work and garden furniture.

*Price f.o.b. Chicago, without iron railing, lamps and hardware.

HARTMANN-SANDERS

Colonial Entrances

Pergolas
Rose Arbors
Garden
Equipment

KOLL LOCK-JOINT COLUMN
THEY CANNOT COME APART

Colonial
Entrances
Koll
Columns

178

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There's Just As Much Profit

In Overcoating Old Buildings

As in New Business—And Far More Prospects

Every frame house in the land is eventually a prospect for an overcoat of stucco. And statistics show there are practically eighteen million of these frame buildings standing. Sixteen million are over five years old. Yet more than half the owners of these buildings do not know what they can gain through overcoating with a lasting stucco and haven't the slightest idea of the remarkably low cost involved.

You can add thousands of dollars to your profits by overcoating only a small number of such buildings. The business is all around you — clamoring for attention. And the wonderful part of it is that when you overcoat one job with Elastica you'll find other jobs coming your way—all unsolicited.



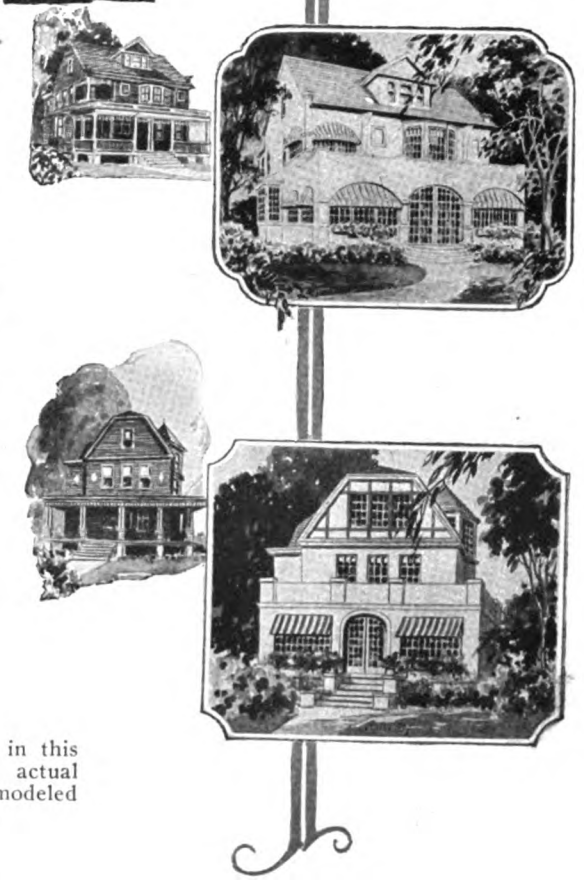
Take a sample of Elastica's first or second coats from any building under construction or from any dealer's stock and make your own sample. Or write us direct.

Allow the sample to set for two weeks or more. Then immerse it in water or apply water to it. Make the same test with a sample of ordinary stucco obtained in the same way.

Elastica not only is the highest quality stucco obtainable but its very appearance on a building SHOWS its quality. And its varied finishes—everything from rock dash to the new French Finishes—are strikingly beautiful.

Elastica is thoroughly and lastingly Waterproofed. It is crack-proof, fireproof and immune to heat and cold.

Elastica saves labor on the job, too, because it spreads so easily and quickly. Although the highest quality stucco obtainable, it costs you no more to use than ordinary stucco because of its greater covering capacity and ease of application.



Manufactured by
U. S. MATERIALS CO.
Chicago
AMERICAN MATERIALS CO.
New York
NORTH WEST MATERIALS CO.
St. Paul

The *Waterproofed* Plastic Magnesia Stucco

ELASTICA

THE WATERPROOFED STUCCO

The buildings reproduced in this advertisement are from actual photographs of homes remodeled and improved with Elastica.

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JUST OFF THE PRESS

A New Plan Book for Builders

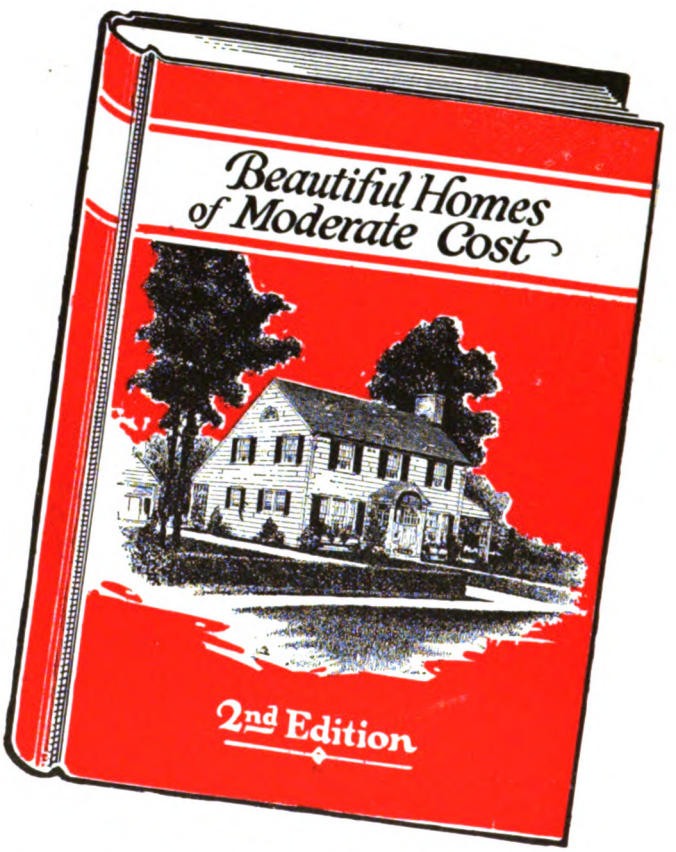
CONTAINS A SELECTION OF HOMES WITH COMPLETE WORKING DRAWINGS

HERE is the plan book that will create more business for builders and contractors.

A *New* book, containing 70 *New* designs of beautiful, moderate cost homes. Every home, whether it is the simple frame cottage or the larger residence has been designed so as to secure beauty and convenience—even for the lot only twenty-foot wide.

Complete blue print working drawings, specifications, and quantity material surveys are included in this book for four of the most attractive designs.

For all other designs, complete working drawings can be secured from Building Age and National Builder at small cost.



A Wide Variety of Architectural Styles

The homes in this new book cover practically every architectural style—American bungalow, Southern Colonial, New England Colonial, Dutch, Mission, Spanish, Italian, English, etc. The designs include bungalows and semi-bungalows, one- and two-family homes, with and without attached garages; one- and two-car garages, fences and gates, pergolas, garden furniture, etc., etc.

A book of exceeding importance to every builder, contractor, lumber dealer, draftsman, real estate operator and mortgage and loan organizations

112 pages—70 New Designs—9x12 inches—Price only $1.00.
Get one of the first copies—use the coupon below.

TEAR OFF HERE

BUILDING AGE and NATIONAL BUILDER,
243 West 39th Street, New York City

Enclosed find $..... for .....copies of the New Plan Book, "Beautiful Homes of Moderate Cost—Second Edition."

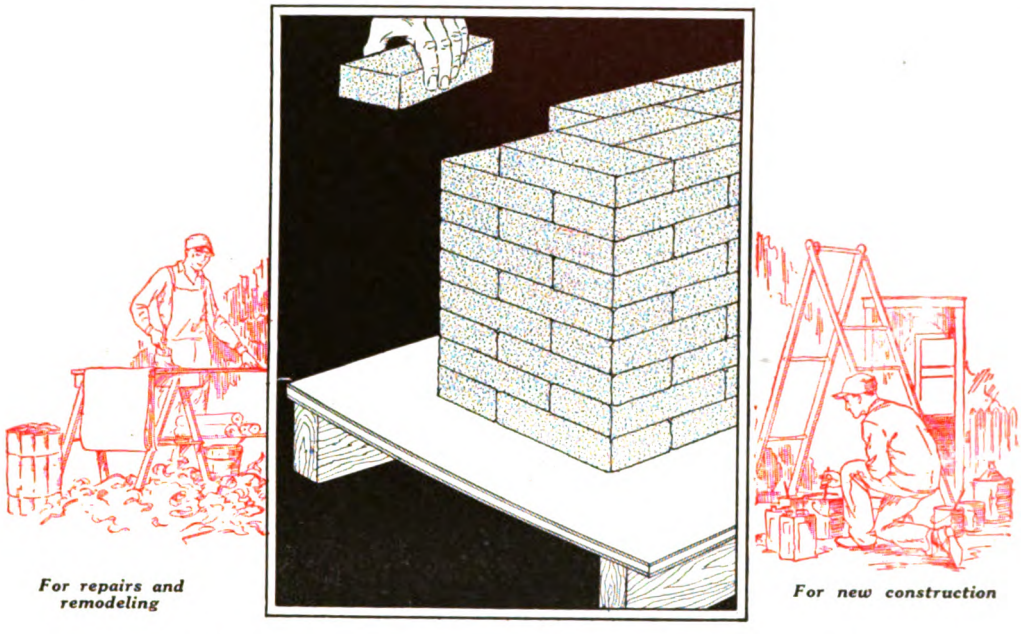
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City .....State .....

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TEST IT!

Beaver Bestwall offers important plaster wall board improvements



For repairs and remodeling

For new construction

—Costs no more than others

This "Strength" Test, made with common bricks, is only one of several practical home tests by which any man can prove to himself the amazing service offered by this improved plaster wall board—Beaver Bestwall.

Let us tell you the rest of the tests or ask your Bestwall dealer about them. Let *facts* show you why you should use this superior plaster wall board *that costs no more.*

Rock plaster core and fibre facing

One important way in which Bestwall differs from other plaster wall board is in its *tough fibre* surfacing.

This exclusive feature, obtainable only in Bestwall, adds strength and serviceability to it in a practical new way.

Its cream-colored fibre facing makes a smooth, hard surface—less absorbent and therefore more economical to decorate.

Rubbing on it shows you how hard it is. It does not become "woolly" with use.

It takes wall paper readily—holds it smoothly and tightly. Yet you can remove old paper without damage to the Bestwall surface—another economy.

Why accept less?

Your plaster wall board investment should buy you the most for your money.

Why accept less than Beaver Bestwall gives when Beaver Bestwall costs you no more?

Make sure it is Bestwall that you are getting, however. You can tell it by the cream-colored surface and the famous Beaver trade mark.

Today get samples and the list of home tests either from your local dealer or by writing to us.

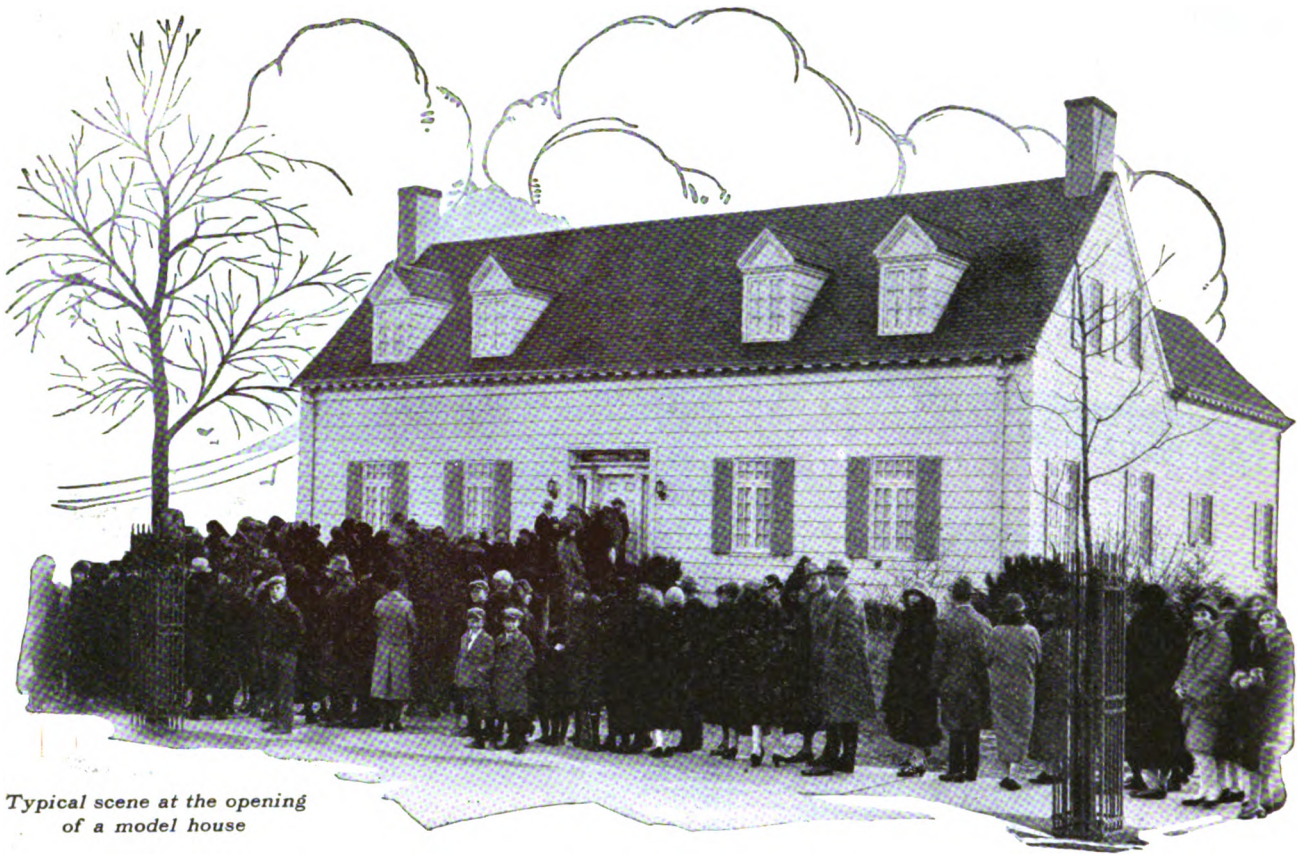
THE BEAVER PRODUCTS CO., Inc.
Dept. 1909 Buffalo, N. Y.

You can tell the genuine Bestwall by its exclusive cream-colored surface.

BEAVER BESTWALL

THE SUPERIOR PLASTER WALL BOARD

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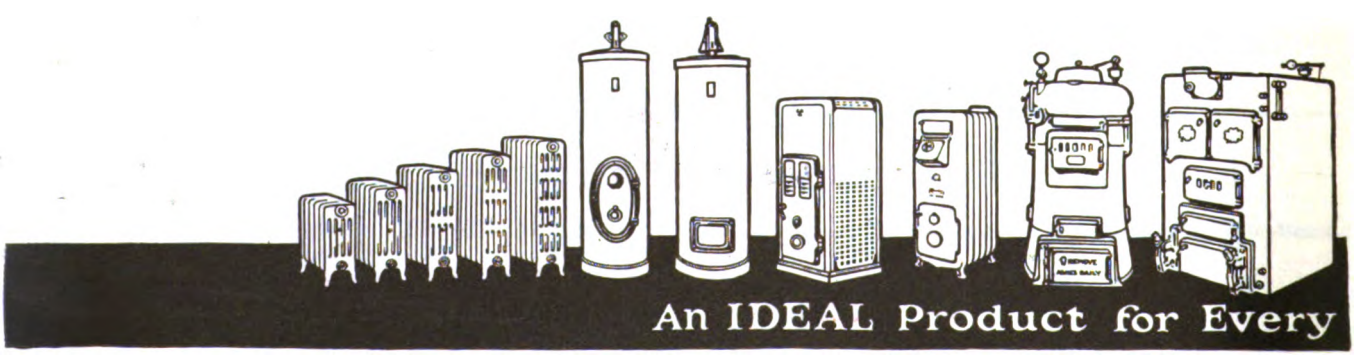
Typical scene at the opening of a model house

WHY are model homes equipped with IDEAL Arco Boilers?

Model homes are built and equipped to make people buy them. And in them, products are installed which builders know will interest prospects immediately.

For 20 years Ideal Arco Boilers have been the standard. Prospects know that they will furnish dependable, healthful warmth always.

That is why they have become the standard equipment for model homes, too.



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Everyone wants
RADIATOR WARMTH

Everywhere everybody wants radiator warmth, because everywhere everybody knows that the house equipped with radiators will be comfortable, no matter how cold the weather or how fiercely the wind howls.

Builders everywhere have found that the home equipped with Ideal-American Radiator Warmth sells easier and for more money.

Here are the reasons

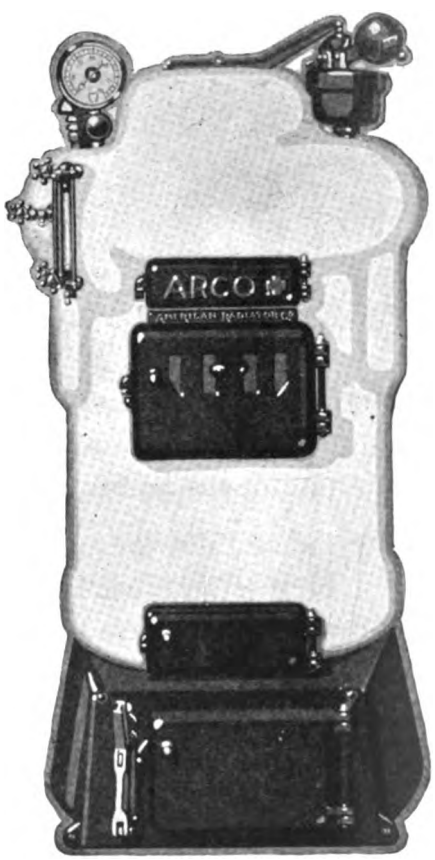
1 Radiator warmth is even warmth. Every corner of every room is filled with healthful comfort. There are no cold spots and no hot spots.

2 Ideal-American Radiator Warmth is clean warmth. Dirt, dust and ashes do not pour up to soil curtains, draperies, etc.

3 An Ideal-American Radiator Heating System adds much more than its cost to the value of any home.

4 Ideal-American warmth is a real salesman if people ever want to sell their homes.

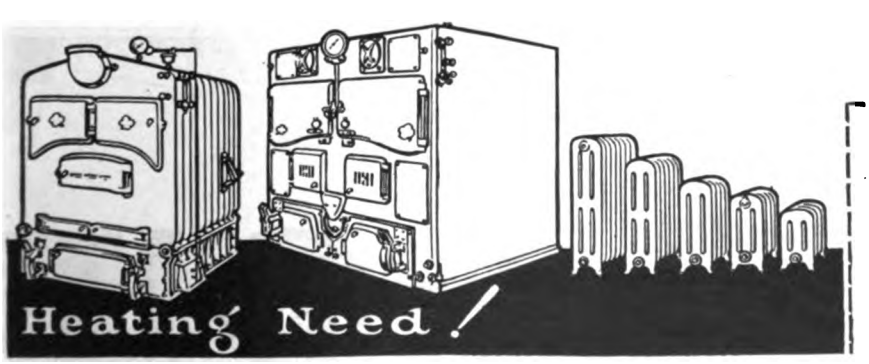
The coupon below will bring you a booklet describing Ideal Arco Boilers and their use.



AMERICAN RADIATOR COMPANY

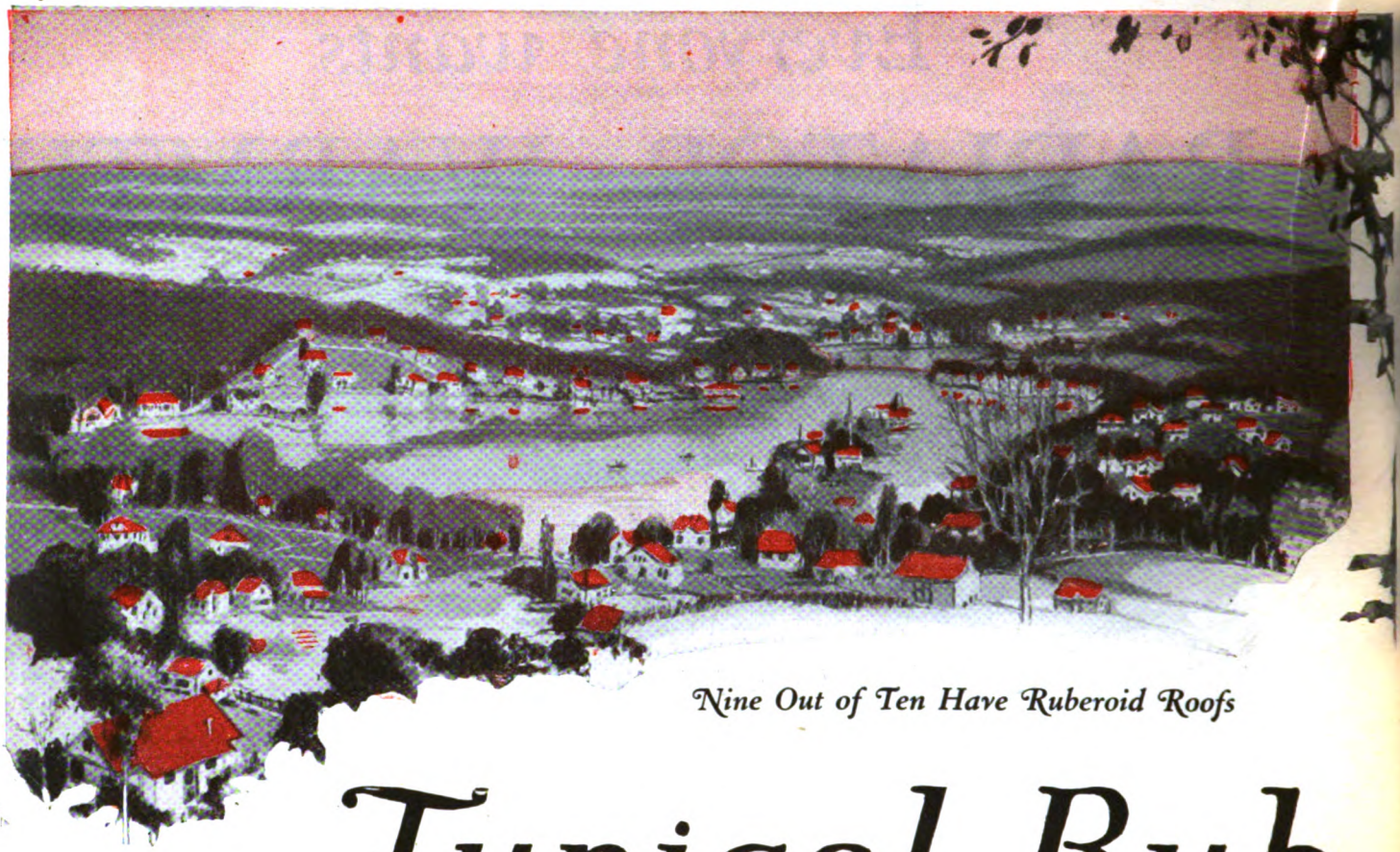
Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver, San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL BOILERS *and* AMERICAN RADIATORS *and other products for heating, ventilating and refrigeration*



AMERICAN RADIATOR COMPANY
Direct Mail Advertising Dept. —127
1807 Elmwood Ave., Buffalo, N.Y.
GENTLEMEN: Please send me your booklet on Ideal Arco Boilers.
Very truly yours,
Name_____
Address_____
City_____ State_____

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Nine Out of Ten Have Ruberoid Roofs

Typical Rub

IN communities where the merits of Ruberoid Shingles are fully recognized you will find an overwhelming proportion of the homes protected by Ruberoid Roofs.

Indian Lake, for example, is an exclusive summer resort in New Jersey, containing over five hundred homes. Ninety per cent. of these homes are roofed with Ruberoid Shingles.

In the suburbs of Philadelphia are the four towns of Merchantville, Mapleshade, Lenola and Moorestown, N. J. They cover an area of five miles and contain eighteen hundred homes. Two out of every three of these homes are roofed with Ruberoid Shingles.

These are striking, but not unusual, demonstrations of the fact that the quality, appearance and prices of Ruberoid Shingles appeal strongly to home owners of taste and discernment.

We will gladly send, informative, illu
you—upon
your



RU-BER-OID

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Two Out of Three Have Ruberoid Roofs

eroid Towns

any or all of these
strated folders to
receipt of
request



In Ruberoid Shingles and Roofings you find a wide variety from which to make selection—seven different styles of asphalt shingles which offer four basic colors and various two, three, and four tone effects *perfected* by The Munsell System of Color Notation; also, five different grades of smooth-surfaced and mineralized roll-roofings.

Near you is a lumber or building supply dealer who sells Ruberoid Products. Ask him about them or write us for information.

The RUBEROID Co.

Chicago **New York** **Boston**

The RUBEROID Co., 95 Madison Ave., New York City Bldg. Age

Gentlemen: Kindly send me the name of the nearest Ruberoid Dealer and booklets describing the Ruberoid Products checked below.

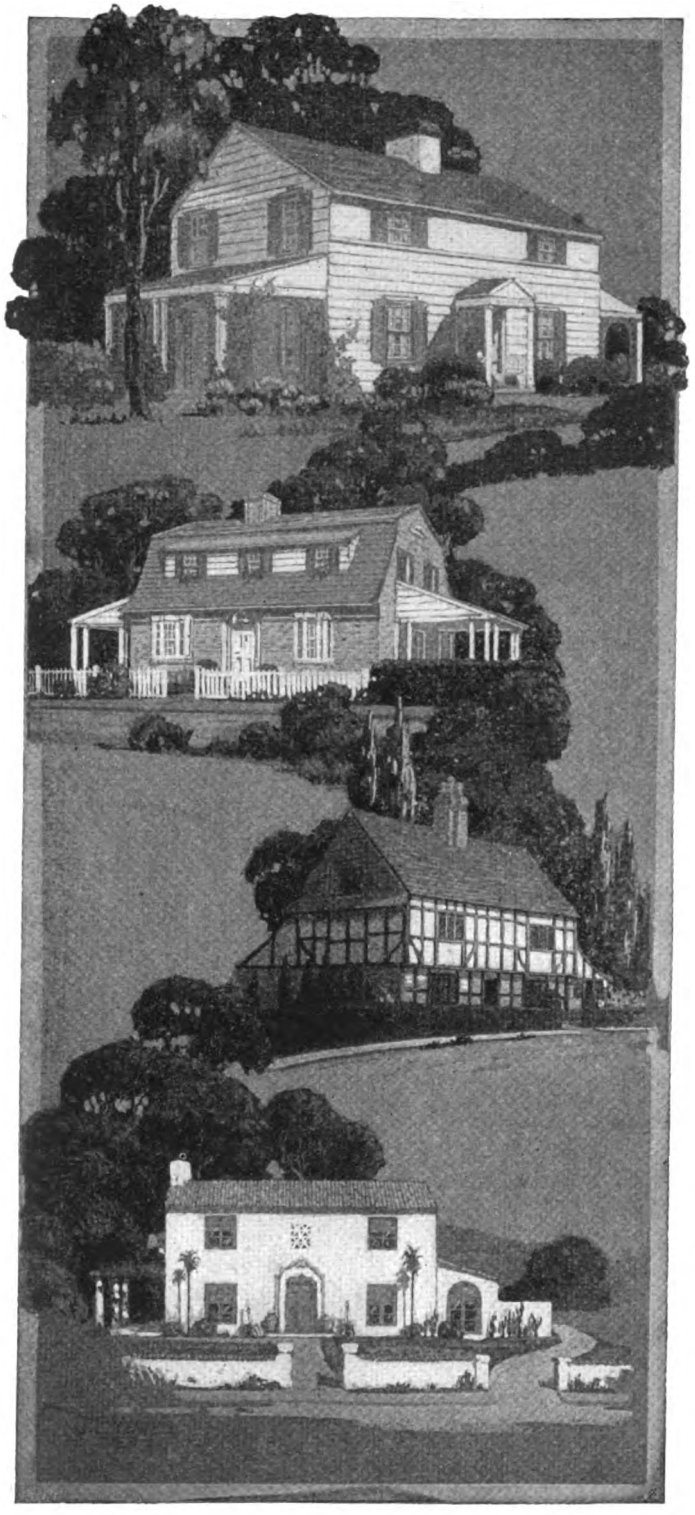
Ruberoid Strip-shingles	☐ Octagonal	☐ Square	☐ Hex-agonal
Ruberoid Individual-shingles	☐ Giants	☐ Standard	☐ Lock-down
Ruberoid Roll-roofing	☐ Slate-surfaced		☐ Smooth-surfaced

Name .....

Address .....

SHINGLES-ROOFINGS

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THE CHIMNEY-FED INCINERATOR

KERNERATOR

REG U S PAT OFF

Garbage and Waste Disposal without Leaving the Kitchen

Selected *for the* model homes

Garbage cans are out of keeping with the *modern* home. So decided the Home Owners' Service Institute, which is constructing a series of 360 model homes in 28 principal cities throughout the country.

The Kernerator was a natural selection—standing as it does for the time-tried, highly satisfactory method of garbage disposal. Years have been spent in developing the principle of flue-fed incineration, but results have more than justified the effort.

Costs nothing to operate—

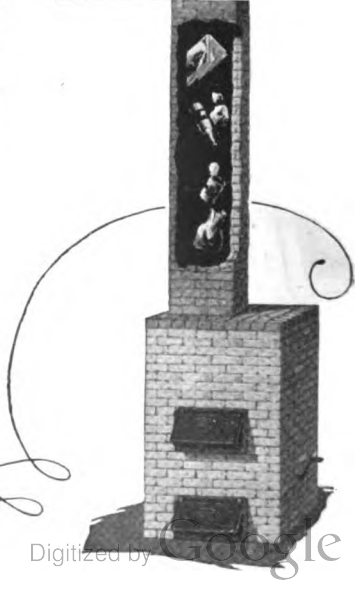
No gas or other fuel required

The Kernerator is a brick combustion chamber, built into the base of the regular chimney, with a separate flue, having hopper doors located in or near the kitchen. All waste—not only garbage, but tin cans, bottles, papers, all discarded trash — is dropped through the handy hopper door and falls to the brick combustion chamber in the basement. An occasional lighting (a match does it) burns everything but metallic objects and such non-combustibles, which are flame-sterilizied for removal with the ashes. No fuel of any kind is used—the waste itself is fuel for its own destruction.

The Kernerator costs no more than a good radio—and the radio can be added any time, while the Kernerator must be built in.

See Sweet's Twentieth Edition pages 2800-01. For additional information, phone your local Kernerator representative (25 of whom are listed in the telephone directories of that number of principal cities) or write to us.





The beautiful homes *you* build also deserve something better than the out-of-date garbage cans—a tiresome, unsanitary method of garbage disposal that should have disappeared with the outdoor pump. The greater satisfaction assured by the Kernerator will do much in creating good-will among your clients.

The Kerner Incinerator Co.

727 East Water St. Milwaukee, Wis.

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100% Waterproofing Certainty *with* 42% Waterproofing Economy

Results obtained in America's outstanding buildings—results obtained in America's greatest concreting operations, including world famous sewerage disposal plants and mammoth reservoirs, all demonstrate this one basic fact. Truscon Waterproofing Paste Concentrated makes concrete 100% waterproof not merely for a few years but for all time to come. Truscon Waterproofing Paste Concentrated provides the one certain method of permanently and effectively waterproofing concrete—but more than this—

TRUSCON *Waterproofing Paste* CONCENTRATED

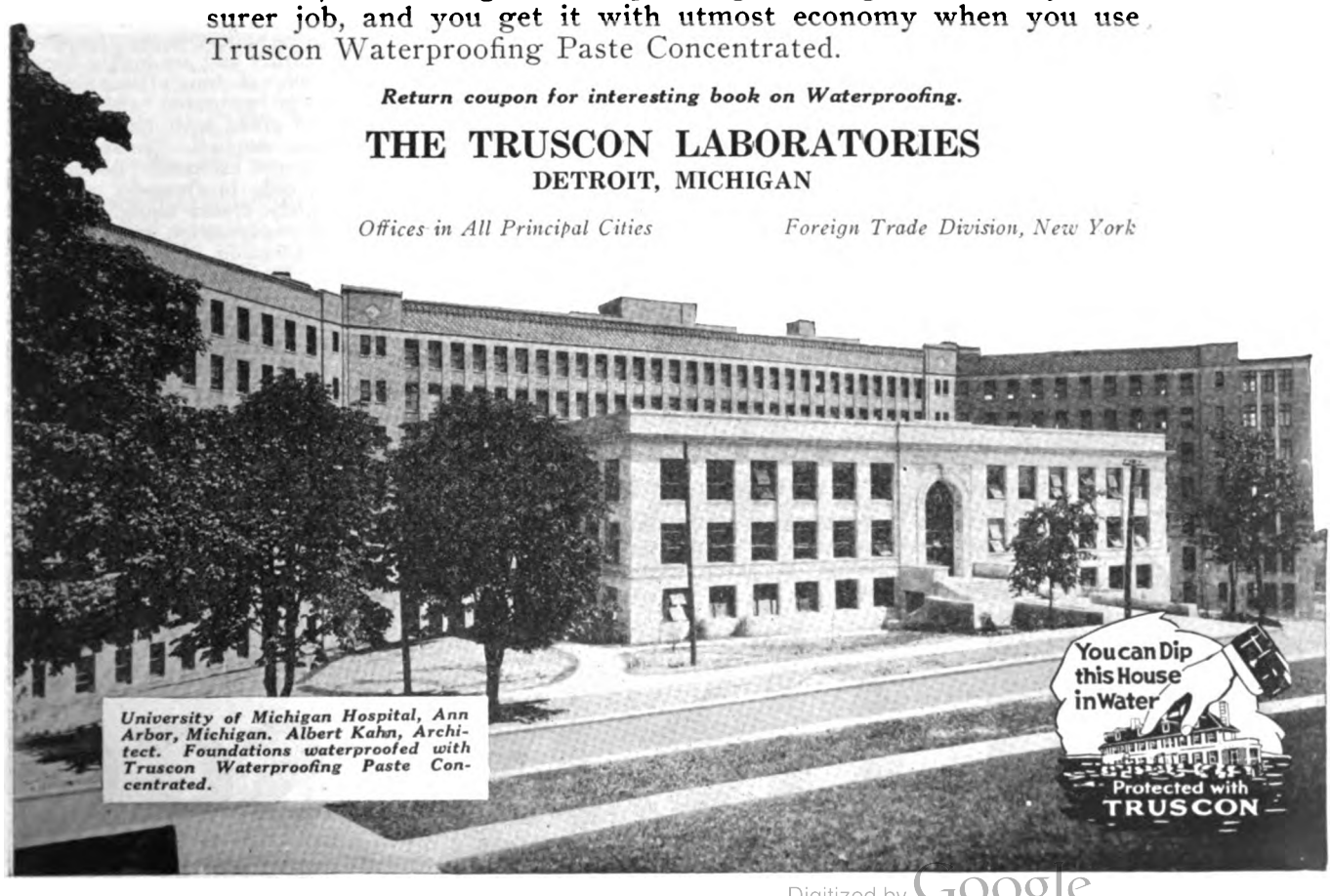
WATERPROOFS CONCRETE AT THE LOWEST COST PER CU. YD.

Only in Truscon Waterproofing Paste Concentrated do you get waterproofing material in such concentrated form as to enable you to waterproof effectively and permanently a cu. yd. of concrete with 42% less integral waterproofing. You get a better job—a surer job, and you get it with utmost economy when you use Truscon Waterproofing Paste Concentrated.

Return coupon for interesting book on Waterproofing.

THE TRUSCON LABORATORIES
DETROIT, MICHIGAN

Offices in All Principal Cities *Foreign Trade Division, New York*



University of Michigan Hospital, Ann Arbor, Michigan. Albert Kahn, Architect. Foundations waterproofed with Truscon Waterproofing Paste Concentrated.

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Genasco

Reg. U. S. Pat. Off.

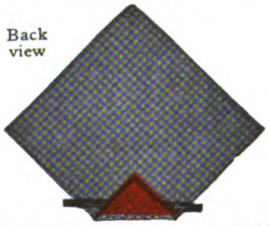
Latite Shingles

What's your address, Mr. Builder and Contractor —here's some extra money for you!



Front view

The patented "key" locks each shingle tightly to those underneath.



Back view

The turned-under corner holding the "key" makes a double-thick butt.



The "key" is invisible on the finished roof, and the double-thick butts cast a "shadow line" that adds distinction.

Get right on the track of it by filling in the coupon on the opposite page and sending it to us—today! You can have this extra money just as well as any one else. It's additional business you can readily handle—and it's active the year around.

No need to tell you that there are plenty of buildings near you to be re-shingled in addition to the buildings under construction which will need new roofs—but did you ever consider that **this was all business which can easily be YOURS? With Genasco Latite Shingles you can handle it profitably and with the utmost satisfaction to your customers.**

In re-roofing the "Genasco Way" the new shingles are laid right over the old—the patented "key" locking device makes Genasco Latite particularly adapted for laying in this way—saving time and labor and money, and making it possible to do re-roofing winter as well as summer because the interior of the house is never exposed to the weather.

Genasco Latite Shingles are impervious to all weather and are highly fire-resistant. Made of tough long-fibred rag felt heavily saturated and then coated *on both sides* with the famous Trinidad Lake Asphalt Cement—the undercoating is the exclusive "Sealbac" feature, found only in Genasco, which protects the body of the shingle from the attacks of condensation and assists in the closer adhesion of the shingles to each other. Finished with an attractive surface of granulated slate—red, green, or blue-black.

Our series of two-page color advertisements in the Saturday Evening Post constantly stir up business for you—and our definite, proved plan tells you how to take care of it, how to handle every stage of it successfully—and make money at it.

Take the next step—get the complete information—and do it now! The sooner you fill out and mail the coupon, the sooner this extra profit can be yours. Get started today!

Genasco

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Genasco
Roll Roofing



Genasco
Sealbac
Shingles



Trinidad
Lake
Asphalt

Treasure
dug from
a lake



Genasco
Roof Coating



Genasco
Stucco
Base

Genasco

Reg. U. S. Pat. Off.

Protective Products

You might just as well share in the profits made from this treasure dug from a lake!

Genasco Roll Roofing

A high-quality roof at a medium-price for farm buildings, factories, warehouses—wherever a roof as ornamental as Genasco Shingles is not desired. Smooth surface or slate surface. A supply of Kant-Leak Kleets, an excellent roof-fastening device, packed in each roll.

Genasco Sealbac Shingles

A shingle of the straight conventional type, but the same high quality which distinguishes Genasco Latite Shingles—including the famous Genasco "Sealbac" feature. Individual and strip. Genasco Sealbac Shingles in three colors—red, green and blue-black. Genasco Sealbac Strip in red, green, blue-black and multicolor.

Genasco Roof Coatings

Smooth-surface roll roofings need a roof coating every two years to prolong their life.

Genasco Roof Coating is a heavy black liquid asphalt—dries to a tough elastic coating. 1 and 5-gallon pails, and 50-gallon drums.

Genasco Asphalt Fibre Coating contains asbestos fibre—permits a much heavier application, without danger of flowing in hot weather. 1 and 5-gallon pails, 30 and 50-gallon drums.

Trinidad Lake Asphalt is nature's own waterproofer—unequaled by manufactured compounds. It is the foundation of the entire line of Genasco Roll Roofings and Shingles—the thing that makes them so desirable for you to handle. Trinidad Lake Asphalt is dug from the surface of the lake with mattocks. Used for a half-century as a street-paving material. Famed the world over for its weather and wear resisting qualities.

Other Genasco Products follow.
Full information on request.

Genasco Asphalt Putty
(Roofing Cement)
Genasco Deadening Felt
Genasco Insulating Paper
Genasco Red Sheathing Paper
Genasco Wall Lining

The Barber Asphalt Company
Philadelphia

New York — Chicago — Pittsburgh
St. Louis — Kansas City — San Francisco

Genasco Stucco Base

High-grade felt thoroughly saturated and coated with asphalt in which granules of calcite are imbedded to act as a "key" or "anchor" for Portland Cement and Magnesite Stucco. Requires a minimum of stucco. Windproof, water-proof, rust-proof, vermin-proof. Rolls 36 inches wide, covering 100 square feet.

The Barber Asphalt Company,
Philadelphia.

Please send me full information regarding the products I have checked:

Genasco Latite Shingles ☐
Genasco Roll Roofing ☐
Genasco Sealbac Shingles ☐
Genasco Stucco Base ☐
Genasco Roof Coatings ☐

Name .....

Address .....

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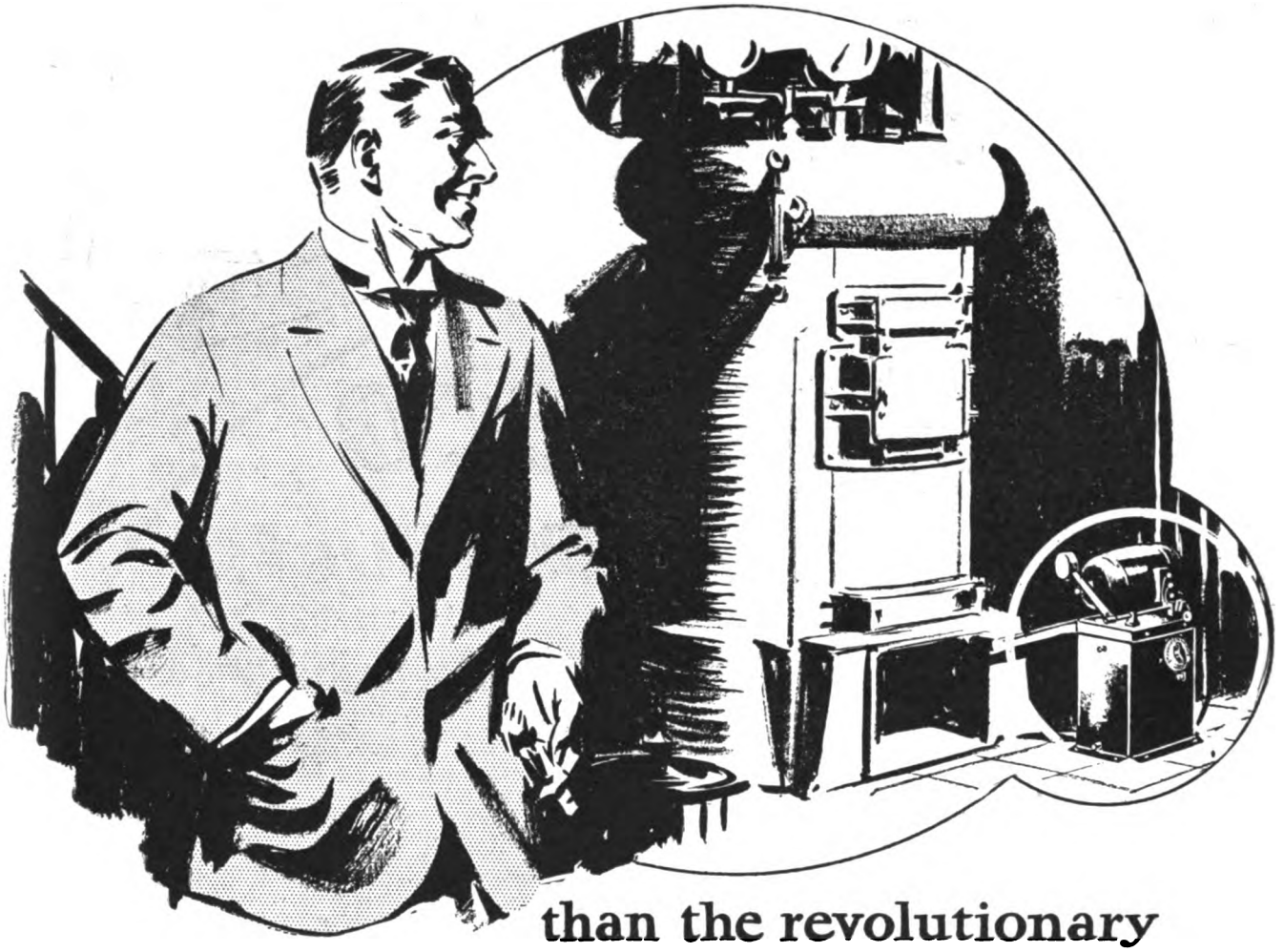
protected!



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There's a great deal MORE *to* SILENT AUTOMATIC



than the revolutionary LOW PRICE discloses



Listed as standard by the Underwriters' Laboratories

Silent Automatic is displayed in operation in the Liberal Arts & Manufacturers Building at the Sesquicentennial International Exposition, Philadelphia.

$350

Installed with complete automatic safety and operating control equipment heretofore found only on the highest priced machines.

Cost of tank for each installation depends upon oil storage desired.

Price is often a deciding factor, but in the case of Silent Automatic, its *superior merit* gains more attention than its revolutionary low cost. It is really silent and economical in operation, simplified in construction and rigidly built. No other burner is more perfectly equipped with approved automatic controls. There are many other features—features that make Silent Automatic the outstanding standard in its field. Write for complete information.

SILENT AUTOMATIC CORPORATION
255 Meldrum Avenue Detroit, Michigan

SILENT AUTOMATIC

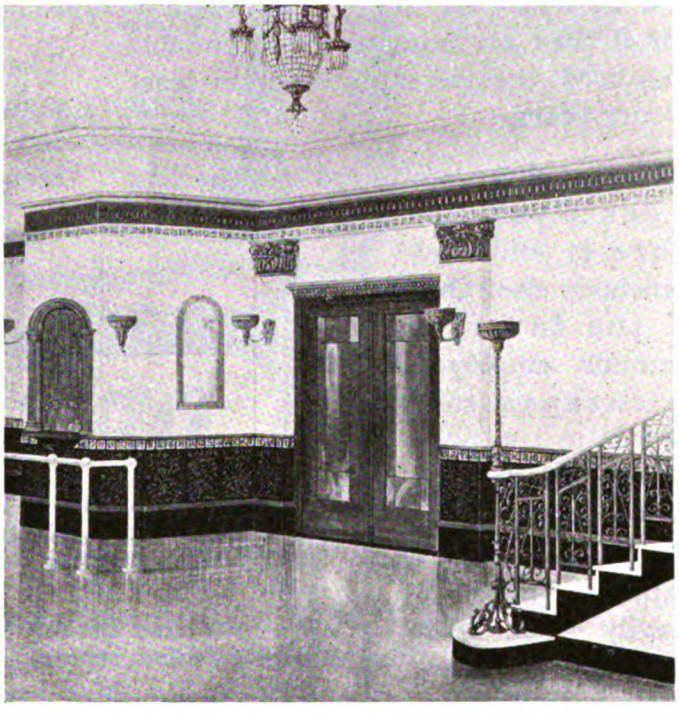


THE NOISELESS OIL BURNER

(160)

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And Now—
TAPESTRY *Sani-Onyx*



Six Standard Colors

SANI ONYX, in tile pattern sheets and plain slabs, is now available in six standard colors—Ivory, White, Blue, Gray, Green and Black. Also, it may be had, to order, in any special color or combination of colors.

SANI ONYX is supplied in six surface textures—Flame Glaze, Semi Matte, Matte, Tapestry, Polychrome and Embossed. Special designs, including any desired trade-mark, emblem or symbol, may be cut in SANI ONYX slabs to your order.

IT is possible, in this picture, to give only a hint of the decorative possibilities of SANI ONYX. New and colorful designs in Tapestry, in Polychrome and in Embossed SANI ONYX open a world of inspiring decorative possibilities.

SANI ONYX, you know, is not a makeshift material. It has come to *supplant*, not to substitute. SANI ONYX possesses all of the good qualities of marble, tile or plaster, with distinct and exclusive advantages of its own. It will not crack, check, or discolor. May be readily cleaned with a damp cloth, and will outlast the building itself. Adds a distinctive touch to the finest home or public building.

Marietta Manufacturing Company

Office Works—91 Brookside, Indianapolis, Ind.

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Architects and builders are urged to make liberal use of our Advisory Service. We will gladly send samples of SANI ONYX and make up blue prints to your specifications.

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There *is* a dependable Sash Cord

You can identify it by means of the Colored Spots

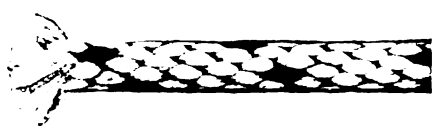
RE-HANGING the windows should be a task for the *next* generation. For if they are hung with dependable sash cord, the job is done for at least twenty years.

What is "cheap sash cord"? The less it costs you the more it will cost somebody else. One of the favorite methods employed to cheapen sash cord is to use poor cotton yarn braided over a large centre core, made of short staple, soft yarn, heavily sized with paraffin, clay, paste, or other adulterant.

A cord constructed in this manner may look all right from the outside, but it is practically useless for any purpose. It is not really strong. It is seldom flexible. It will not remain smooth. It soon becomes lumpy, and often stretches so much immediately after the windows are hung that the job has to be done over again. Furthermore, some adulterated cords have been found to breed vermin.

The chief expense in hanging windows is labor; the cord doesn't cost much. A few cents more for each window will mean years of satisfactory service. It may mean a big saving for the contractor, since Samson Spot Cord does not stretch when the weights are hung. It certainly means a talking point in selling the house, for Samson Spot Cord is easily identified by the colored spots, our trade-mark, and has been known as the best cord for over 33 years.

It is made of fine cotton yarn, spun in our own mills. It contains no loading, no adulteration. It is firmly and evenly braided, smoothly finished, and guaranteed free from imperfections. And it's all first quality cord—there are no "seconds."



(Trade Mark Reg. U. S. Pat. Off.)

YOU can identify Samson Spot Cord by the colored spots. They are our trade-mark, and indicate our best product, made from fine cotton yarn spun in our own mills.

We guarantee Samson Spot Sash Cord to be free from *all* imperfection.

Let us send you our catalog, and samples, showing the complete line. We make braided cord in all colors, sizes, and qualities for every purpose.

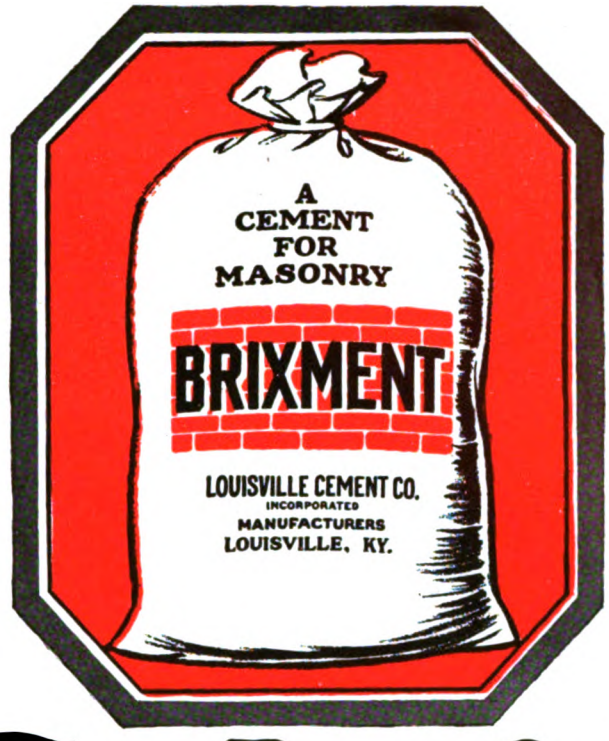
Made by

SAMSON CORDAGE WORKS

88 BROAD STREET BOSTON, MASS.

TRADE  MARK

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The Bag for Extra Profits

TRY BRIXMENT just once—on your very next job—and you'll know to your own satisfaction how thousands of contractors are cutting the cost of masonry every day in the year. You'll know how BRIXMENT can save *you* time, labor and money on every job and assure you a wall of uniform strength. No lime, no slaking. Mix one part BRIXMENT with three parts sand and you have the easiest-working mortar you ever knew—ready as soon as mixed. Contractors report savings of $1.50 to $2.50 per thousand brick.

BRIXMENT for All the East

Brixment has been used for mortar in many of the most prominent buildings in the United States. The U. S. Mail Terminal in Chicago, the New York Times Annex in New York, the Miami Biltmore Hotel—these are just a few examples. . . . . Now the demand from eastern contractors has grown to such an extent, we have had to build another large-capacity mill to meet their needs. . . . . This new mill, located at Brixment, N. Y. (formerly Akron Falls), now assures prompt delivery anywhere in the east.



Economies of BRIXMENT

BRIXMENT is a mason's cement of unusual strength and economy. . . . . No lime. No slaking. No time lost. Ready as soon as mixed. Your concrete mixer can be used. . . . . Works easier on the board and produces better work in less time and at less cost. Does not fade mortar colors.

Ask Your Dealer

BRIXMENT is regularly sold through dealers. If your dealer is not yet supplied, write us direct for quotations and details. LOUISVILLE CEMENT CO., *Incorporated*, Louisville, Ky.

Cement Manufacturers for Nearly a Century

BRIXMENT *for Perfect Mortar*

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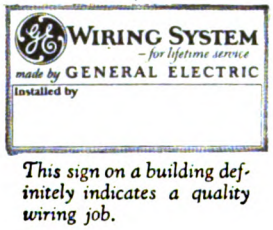


Is "advertised wiring" profitable to the builder?

The best and surest answer to this question is the number of G-E Wiring System installations being made today in thousands of houses built for sale all over the country.

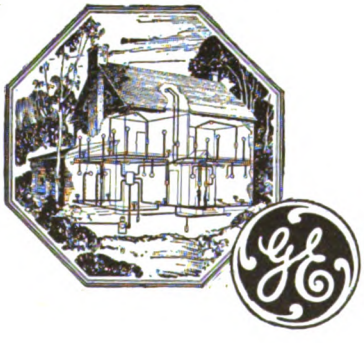
Builders find that there is a great demand—continuously fostered by G-E advertising—for an electrical installation of high quality and comfort, insuring completeness.

They find, too, that the G-E Wiring System is a particularly good investment because people *know* such an installation means completeness and low upkeep—that it means all materials guaranteed by *one* company—General Electric.



This sign on a building definitely indicates a quality wiring job.

Merchandise Department
General Electric Company
Bridgeport, Conn.

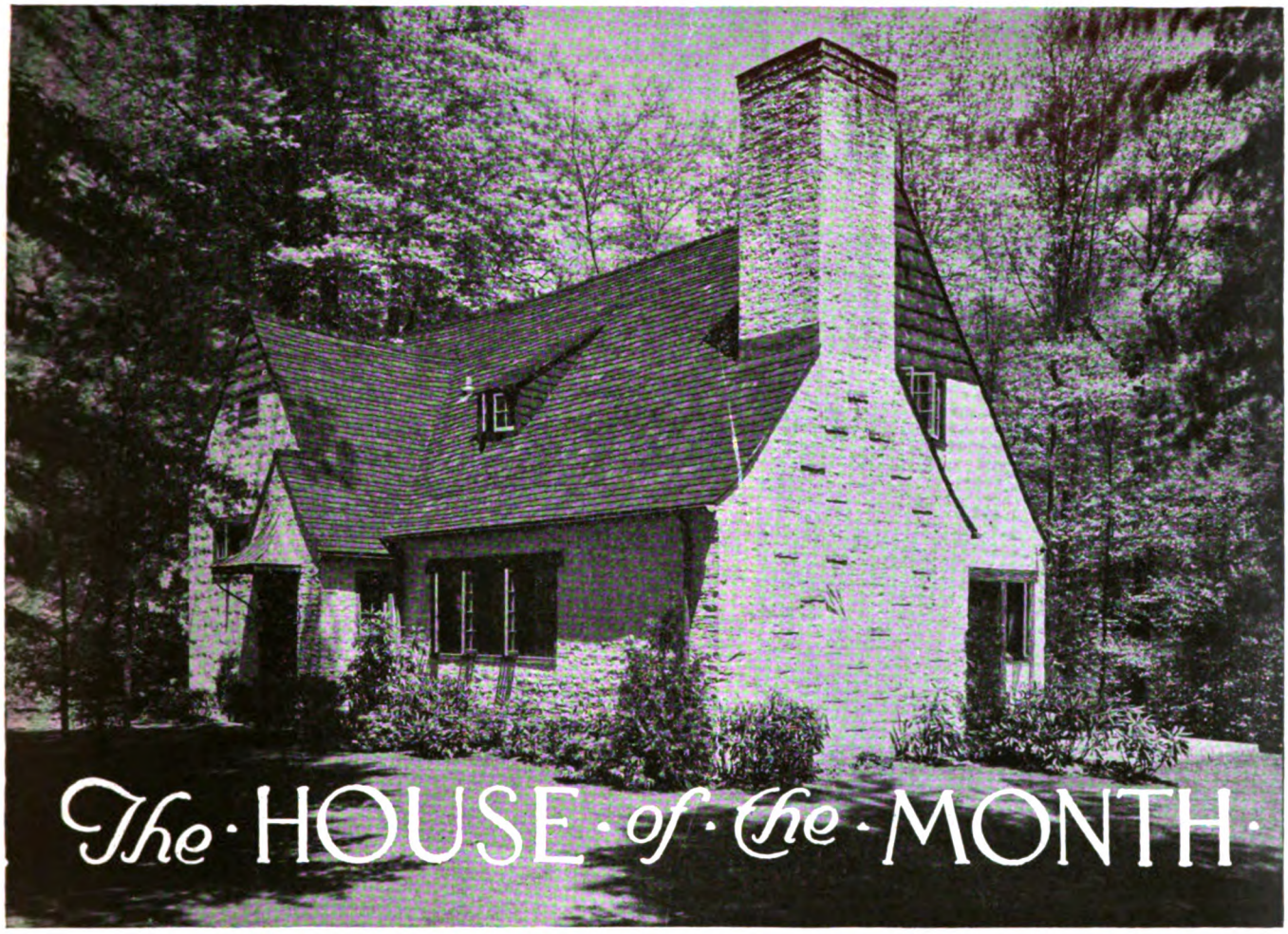


WIRING SYSTEM
–for lifetime service

GENERAL ELECTRIC

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, September, 1926



The HOUSE of the MONTH

NESTLING in its setting of green trees, this little white gem of a cottage has all the appearance of being a native of Normandy, but it is built here in the U. S. A. It is one of those houses that are so peculiarly suited to its location that it just seems to have grown there.

The beautiful uneven contour site, enabled the architect to create a design that is considerably out of the ordinary run of small cottage architecture.

Perhaps one of the most unusual features is the placing of rooms at different levels. There are four levels in all in the house, while it is practically only a story and a half cottage—many would not even grace it with this name but term it a bungalow.

The living room, dining room and kitchen have been placed on the one level, and this at but a slight elevation off the ground for the object was to keep the house hugging Mother Earth as was the custom in the days when "Knighthood was in Flower."

Residence of
Karl Keffer
Scarsdale, N. Y.

Frank J. Forster
Architect

Barnes & Ritchie
Builders

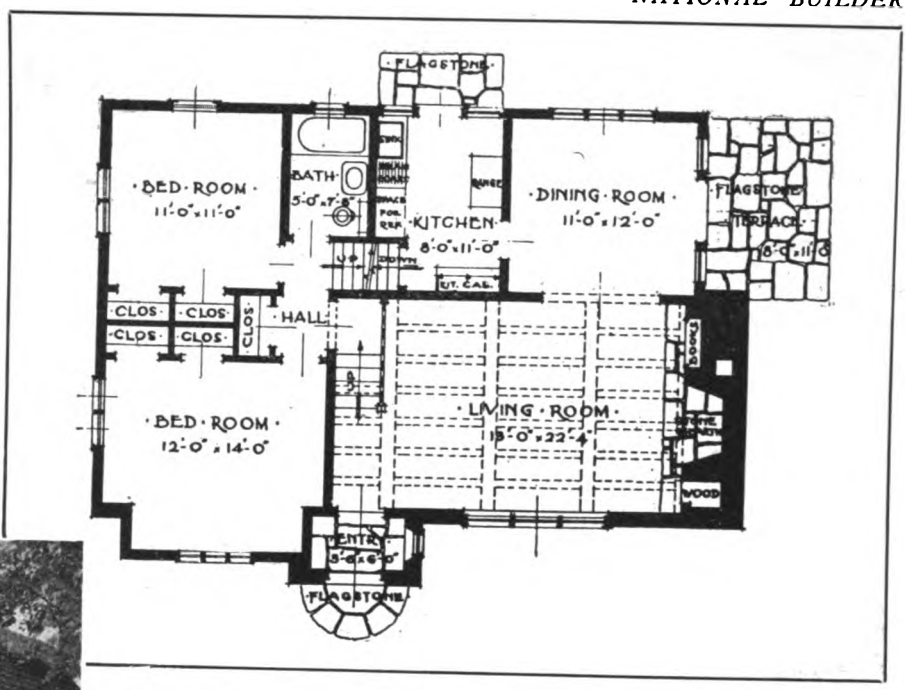


At one end of the living room there is a short flight of stairs, the platform of which leads through an arched opening to the hall of what we may term the first and a half story. This is at a level of about 3 ft. 6 in. above that of the living room, dining room and kitchen floor level.

On this level there is a very convenient two bedroom layout, each with two closets, a little hall with a linen closet and a conveniently arranged bath room. A short flight of stairs from this hall leads up to

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THE floor plan is typically American as modern conveniences have not been disregarded in an effort to secure the effect of an old Norman cottage. Note ample closets



the next level which is above the living room and dining room. Here we have another large bedroom with closet and bath.

Going up another 3 ft. 6 in. we reach the level above the two bedrooms. Here a fourth bedroom is located. This is provided with a clothes closet, also a large storage room which forms the dormer of what we can term the bedroom wing.

This unusual arrangement, while novel, is entirely practical. There are no long flights of stairs to be climbed. Just a few steps and one is to the next level. If we add the cellar to our list, five levels are used in this story and a half cottage.

The interior walls of the different rooms are finished in a soft grey rough plaster which makes for a decided old world feeling.

In the living room, the ceiling has oak beams roughly adzed to size. One entire end of this room is used for the fireplace which is rather a massive affair, with a large wood beam serving as a lintel. To one side is an iron door covering the wood box, while at the other end in the recess a built-in bookcase has been constructed; the trim on this is out of the ordinary.

The cased opening to the dining room is also carried out in heavy beamed style, the effect being secured by two uprights with brackets hewed out of one piece, supporting a large overhead beam.

A feature of the dining room, as viewed from the living room, is the pleasing panorama seen through the triple steel casement windows. On the opposite side of the living room towards what we would term the front of the house is a large double casement triple window. The top casing of this is carried out in the



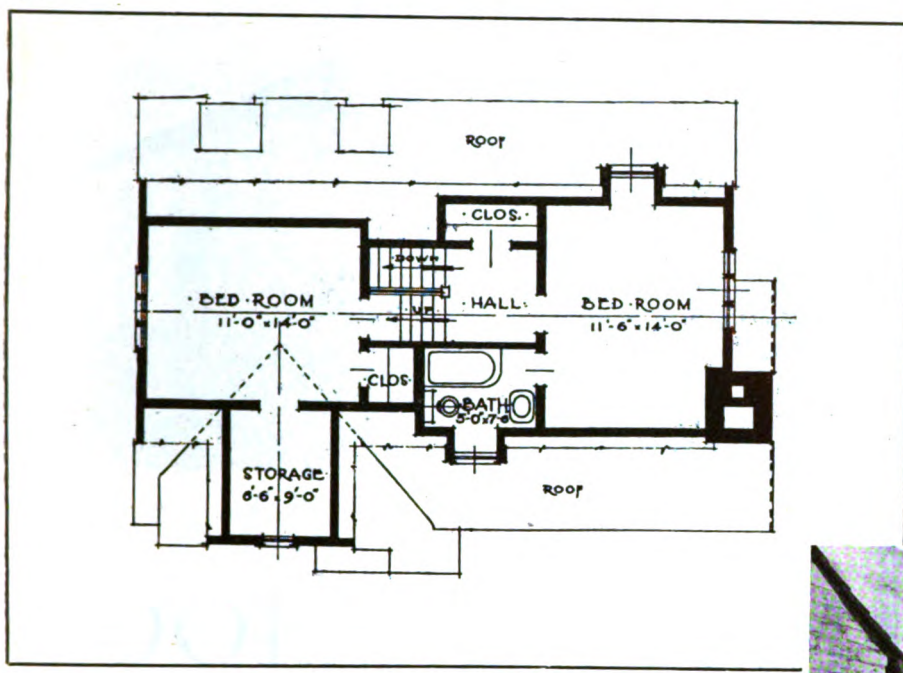
THE front entrance is protected by a quaintly designed copper hood, the dull red and green tints of which contrast strikingly with the whitewashed walls. Under its protecting wing is an oak door that looks as if it had graced a Norman cottage for well over a century. Its front surface is studded with wrought iron nails

Photos by Gilles, N. Y.



ROUGH gray tinted plaster walls harmonize well with the sturdy appearance of the adzed beams. The quaintly trimmed book case and the large wood beam over the fireplace add a touch of old Normandy architecture

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ON the second floor and second and a half floor, as we might properly term it, are two bedrooms and bath with ample closet and storage space located at points of vantage

same heavy beam effect while below a wide window sill has been obtained by creating a radiator grille combined with a bookcase at either end, also for over the radiator.

All of the interior woodwork shown in its rough state has been stained a brown so as to bring forth an old appearance to this modern day construction. The house, of course, is thoroughly wired for electric light, and steam has been provided for the heating.

The exterior of the house is of the Norman cottage type. The most interesting part of it is that different materials have been used for its exterior walls. Brick, stone, stucco and rough old siding have been used for effects.

The walls have been roughly and unevenly laid with here and there a piece of flat stone projecting, this to give the appearance of bond stones. Their unevenness makes a very interesting feature of this wall surface.

Brown staining of the exterior woodwork adds another note of interest and relieves the whitewashed walls to a considerable extent without hurting their appearance for texture.

The crowning feature of the design is, of course, the roof, which has long, sloping lines, broken in front with but a single dormer. This shingled roof has been stained a brown of but a slightly lighter shade than that used for the exterior trim.

The front entrance door is worthy of special note, it is an interesting copy of some of the old Norman doors. Such a door can be very easily made by simply using oak strips over a common door, and then hammer in a number of short wrought iron nails with large heads, thus securing the effect of an old-time studded door. Nails used for such a door were bent over in the back and clinched and, of course, this made it imposible to use them again.

In those days nails were hand made, and, even at that time they were expensive, and if any buildings were demolished the nails were carefully drawn and preserved for use. When nails were used in a studded door, they were useless, or as it was called then, "dead"—having no further usefulness. Hence the expression, "dead as a doornail."





IN lieu of a porch an open terrace fronts the dining room door. This feature allows of use being made of it for outside dining as serving here means but a few added steps

THE dining room is carried out in the same style to harmonize with the living room of which it really forms an alcove. The triple steel casement window presents an interesting wall unit

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A High School

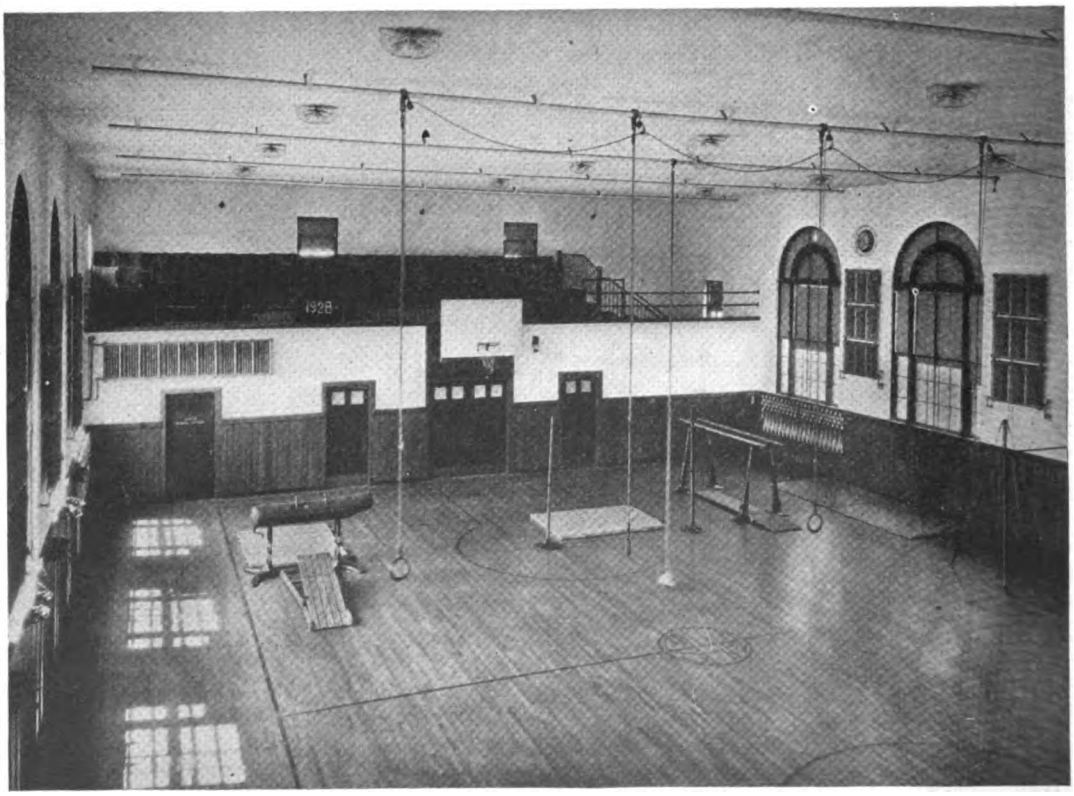
A High School *for*
Hicksville, L. I.
Coffin & Coffin
Architects
New York City
Zerbe Construction Co.
Builders

IN terms of population building budgets for suburban school systems are running close seconds to their neighbors, the city schools. This is particularly true in districts where a large share of the residents have business interests in neighboring cities. In most cases the residential sections are well-to-do; a factor that is immediately reflected in the appearance of local school buildings.

Illustrated is a typical case. Within a convenient train run of New York City, Hicksville is in a position where its income is imported by those whose businesses are in the city. While the families enjoy conditions of an entirely suburban nature, the local school budget is greatly fortified by the proximity of New York business interests. The result is a high school that may well be pointed out as a feature of local importance.

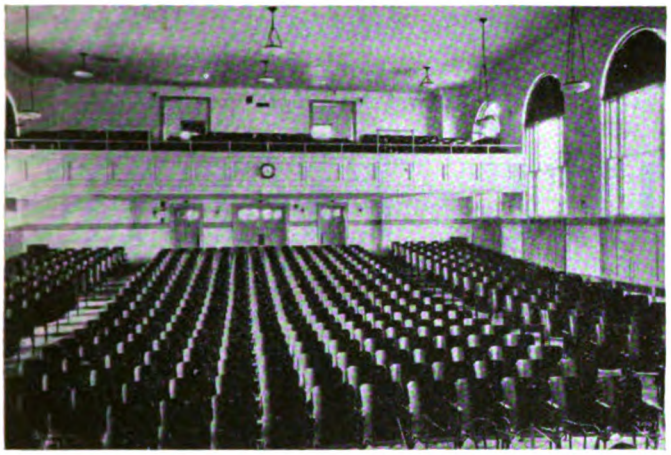
Such building projects are valuable assets to the town itself and to those associated with building work. Where resident builders and architects are fitted to carry on the work, these enterprises represent a volume of business well worth consideration.

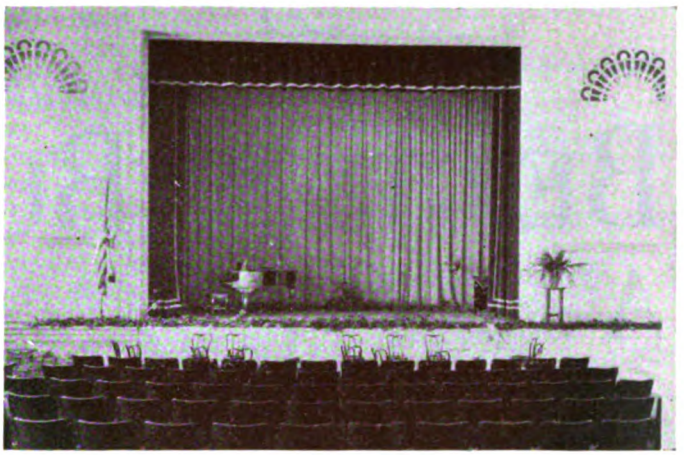
While local conditions bear strongly on design and construction of modern school buildings, much has already been done to provide buildings of unusually good arrangement



THE gymnasium is important in the modern high school. It must be well lighted both by daylight and artificial illumination. It must be easily reached from classrooms. In many cases gym classes for girls as well as boys are held and suitable dressing and shower rooms are provided for. In the Hicksville High School the gym is a model of convenience. At either end is a balcony of ample size to accommodate spectators for school matches

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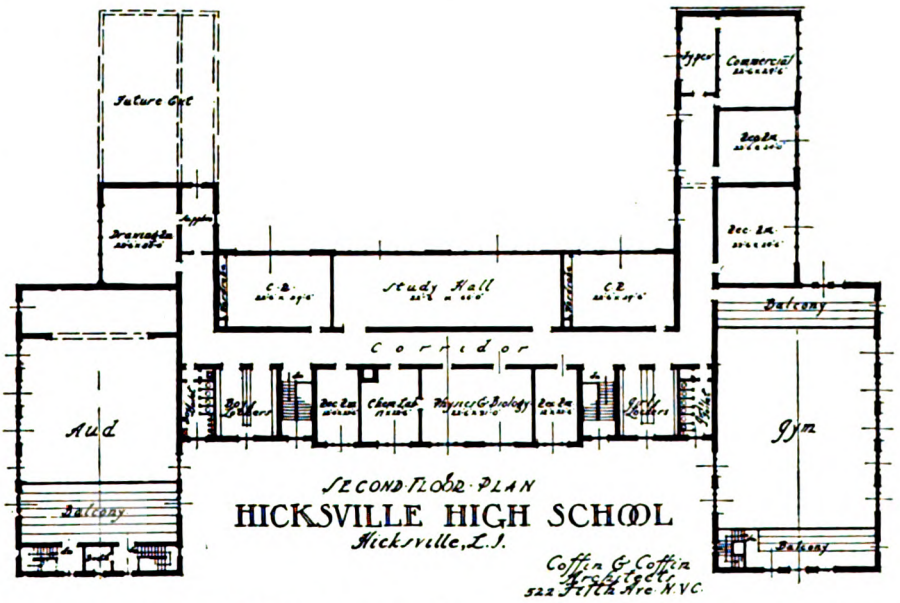


for Suburban Students

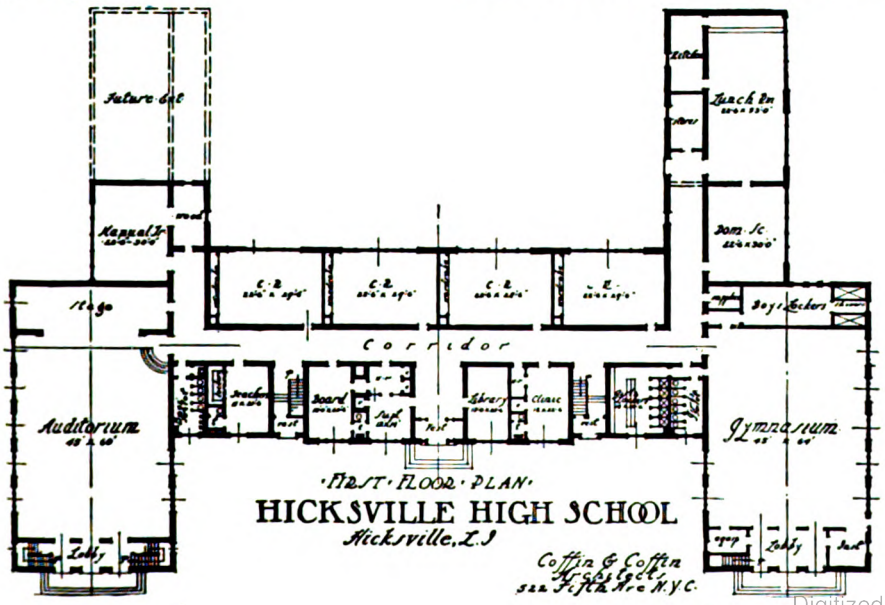
and construction. Where local builders are to be identified with the work, it is always well for them to study the work of other cities and towns. The plans shown here represent careful thought and well directed effort to make everything of the greatest practicability. Ground area has not been wasted and yet the grouping of units is generous and pleasing in appearance.

Modern equipment has found a definite place in school construction. Steel windows, attractive window and door hardware and non-slip stair treads are among the many improvements the up-to-date school boasts over the time of the little red school house of our fathers.

In landscaping the village and town school has untold advantage over the city building. Spacious lawns set off the structure as no intricate detailing of the exterior can hope to do.



The wings of this building do more than give a pleasing exterior appearance. They house departments rquiring ample space and good daylight illumination



IN general the plan utilizes two wings connected by what is properly the main unit. Each wing is directly accessible from outside. Thus either auditorium or gymnasium may be reached with the greatest convenience; a feature of importance when one considers that the town school is a civic center as well. Each of the units provides balcony space on the second floor. In the main unit, offices, library and clinic are located near the main entrance. On the opposite side of the corridor are those classrooms most frequently used. In the wings that extend to the rear are those departments that require ample space; i.e. manual training, drafting, domestic science and commercial. Provision has been made on one side for a future extension.

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A Nation Wide Home Building Program Calculated to Interest the Public in BETTER BUILT HOMES

360 Model Homes in 28 Cities to Be Built From 24 Basic Plans Shown on Following Pages in Rotogravure and Blue Print

A NATIONAL demonstration house campaign, reaching from coast to coast, and backed by millions of dollars, will be launched this month by members of the Home Owner's Service Institute of New York, an organization pledged to raise the standards of residence construction in America.

A minimum total of 360 houses, constructed of standard highly approved materials and products, will be built in a minimum of 28 "key" cities throughout the United States by members of the Institute, that includes representative manufacturers of building material and equipment. Realtor-builders, members of local real estate boards and of the National Association of Real Estate Boards, will erect these houses according to specifications laid down by the Home Owner's Service Institute, and the finished homes will be the last word in modern efficient home construction.

Prior to the opening of the houses, and at the present time, an elaborate educational publicity program is being waged through the columns of leading newspapers in each of the 28 cities, through national magazines, the radio and a highly specialized direct-by-mail program. In each city the dominant newspaper acts as sponsor to the undertaking, editorially advocating the promotion of better construction, and broadcasting throughout the community the advantages of inspecting the model house.

Never before in the history of modern merchandising in the construction field have great allied interests banded together in such a far reaching campaign. Brick and lumber interests, gas and electrical, wallpaper and plumbing manufacturers sat around a table and planned this unique undertaking to sell each other's products and raise the character of home building from the Atlantic to the Pacific, and from the Soo to the Gulf. And, as it is mapped out, there is a great deal more to this program than merely the construction of so many demonstration houses.

Fall and winter building will be encouraged, due to the fact that the campaign will open in September and October and run into the winter months. This will go far to assist the efforts of the government, the American Construction Council, and other bodies to stabilize the building industry by combating seasonal activity.

THE scope of the advertising and publicity campaign, calling attention, perhaps for the first time in some communities to the difference between good and poor construction, together with the life-size exhibit, the house itself, will establish a new construction standard in the communities where these houses will be built.

Without any additional pressure, builders, contractors, and manufacturers of materials and equipment, will be faced with the alternative of either building good durable houses on which the upkeep and depreciation will be reasonable, or doing without the business of thousands of people who will inspect the houses and feel the weight of the advertising and publicity campaign.

It is reasonable to suppose that following the building of a minimum of ten such houses in a community with the residents exhorted on every side to demand good construction, and the same program repeated annually, that the principles upheld in this campaign will be remembered for a long, long time, and followed.

The "key" cities in which the houses will be built were carefully selected from the point of view of the location of the great markets in the United States for the various materials used in home building. In addition, the 28 cities are within easy motoring distance of practically 60 per cent of our entire population.

This campaign will also demonstrate the importance of good architecture and teach the public that a poorly planned house, even though built of good materials, is a bad investment.

SOME of the architectural plans from which these houses will be constructed are prize winning designs from the National Small House Competition, conducted under the auspices of the American Institute of Architects in connection with the 1921 Annual New York and Chicago "Own Your Home" Expositions, and others have been designed by Arthur Bates Lincoln, Consulting Architect of the Home Owner's Service Institute, John Floyd Yewell, member of the A. I. A. and the architectural offices of Henry Atterbury Smith and Associates as consultants.

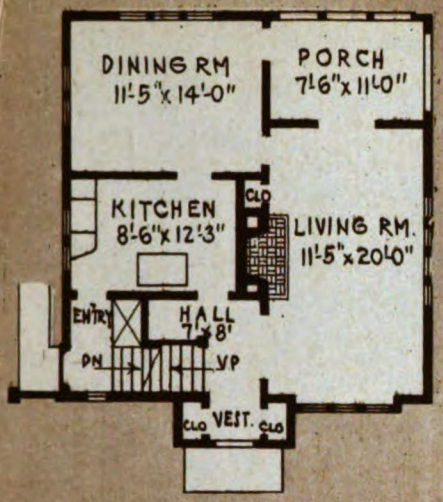
The various elevations include brick, stucco, frame and combinations of these materials.

In all, 36 different demonstration "model" houses will be constructed and opened during the intensive campaign, 12 each month, in September, October and November.

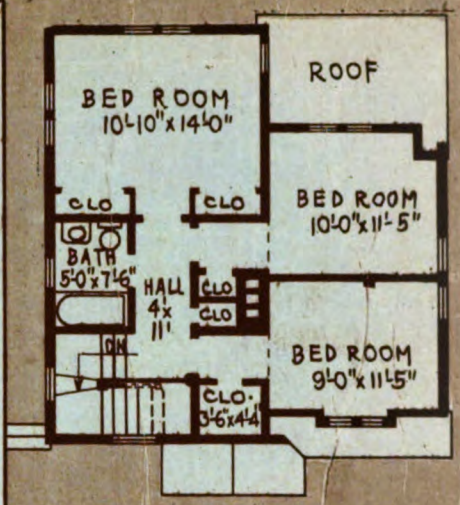
The total of 360 houses is reached by making one of the conditions in selecting each Realtor-Builder, that he construct nine other houses of the same standard material specifications as the first house.

BY special arrangement with the Home Owner's Service Institute, Building Age and National Builder is able to supply complete working drawings in blue print form together with specifications of any of the designs used in this campaign at a uniform price of $25.00 per set.

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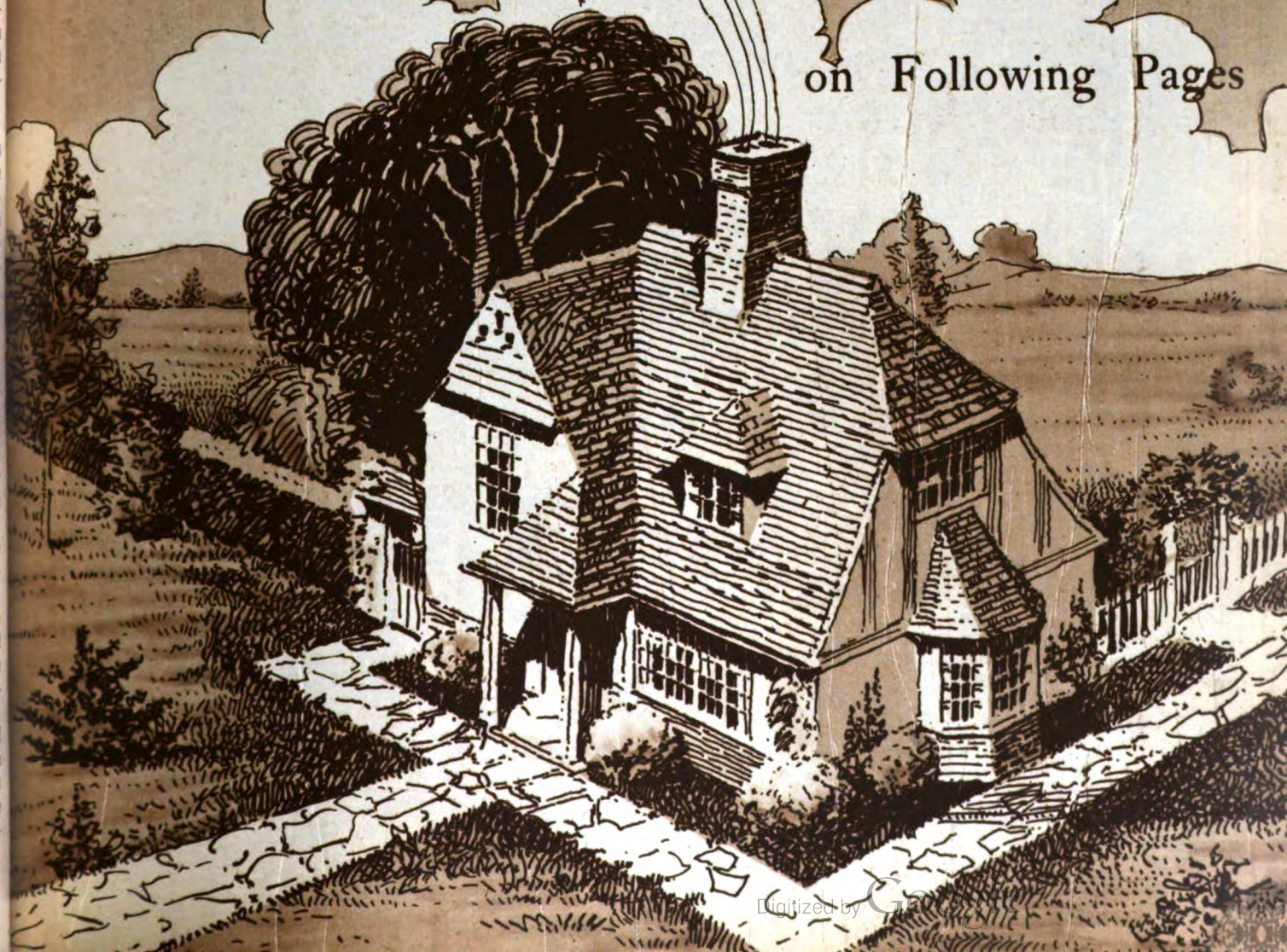


HERE is a six room English farmhouse type of home redesigned from Oscar T. Lang's original home shown on the fourth following page, specially for the Home Owner's Service Institute's campaign by John Floyd Yewell and Arthur Bates Lincoln, architects of New York. The complete working drawings of this house are given in blue print form on the following pages, together with construction details. The block floor plans presented on this page are of the basic plans designed by Mr. Lang and were used with slight modifications for the three other designs shown on the fourth following page.

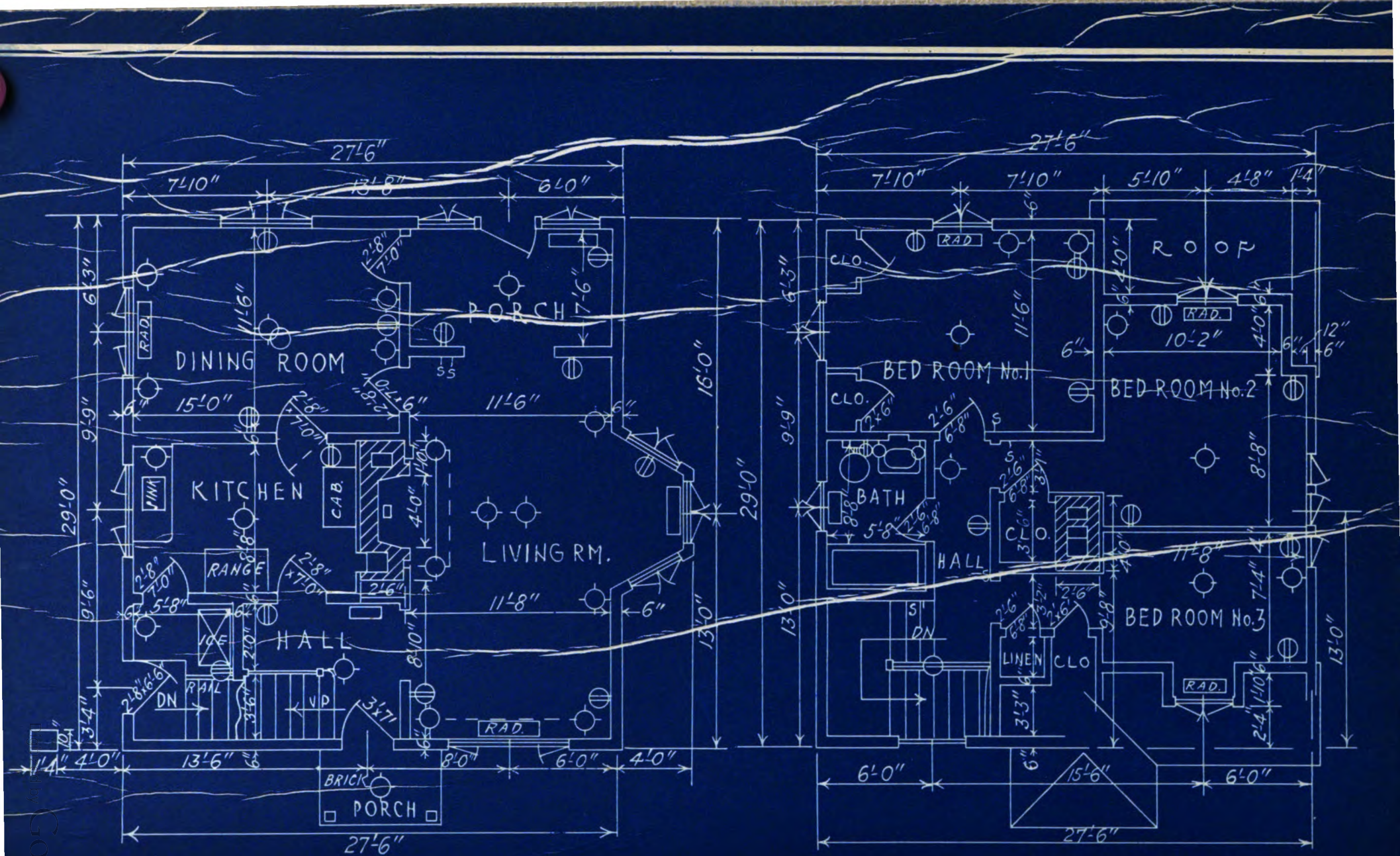


Brick Stucco and Wood

The Complete Working Plans In Blue Print Form on Following Pages



Digitized by


27'-6"
7'-10"
13'-8"
6'-0"
PORCH
DINING ROOM
KITCHEN
LIVING RM.
HALL
RANGE
SINK
CAB.
ICE
RAD.
DN
RAIL
UP
BRICK PORCH
15'-0"
11'-6"
29'-0"
13'-0"
4'-0"
8'-0"
6'-0"
13'-6"
27'-6"
FIRST FLOOR PLAN
7'-10"
7'-10"
5'-10"
4'-8"
1'-4"
ROOF
BED ROOM No.1
BED ROOM No.2
BED ROOM No.3
CLO.
BATH
HALL
LINEN CLO
10'-2"
11'-8"
15'-6"
SECOND FLOOR PLAN


28'-2"
8'-2"
20'-0"

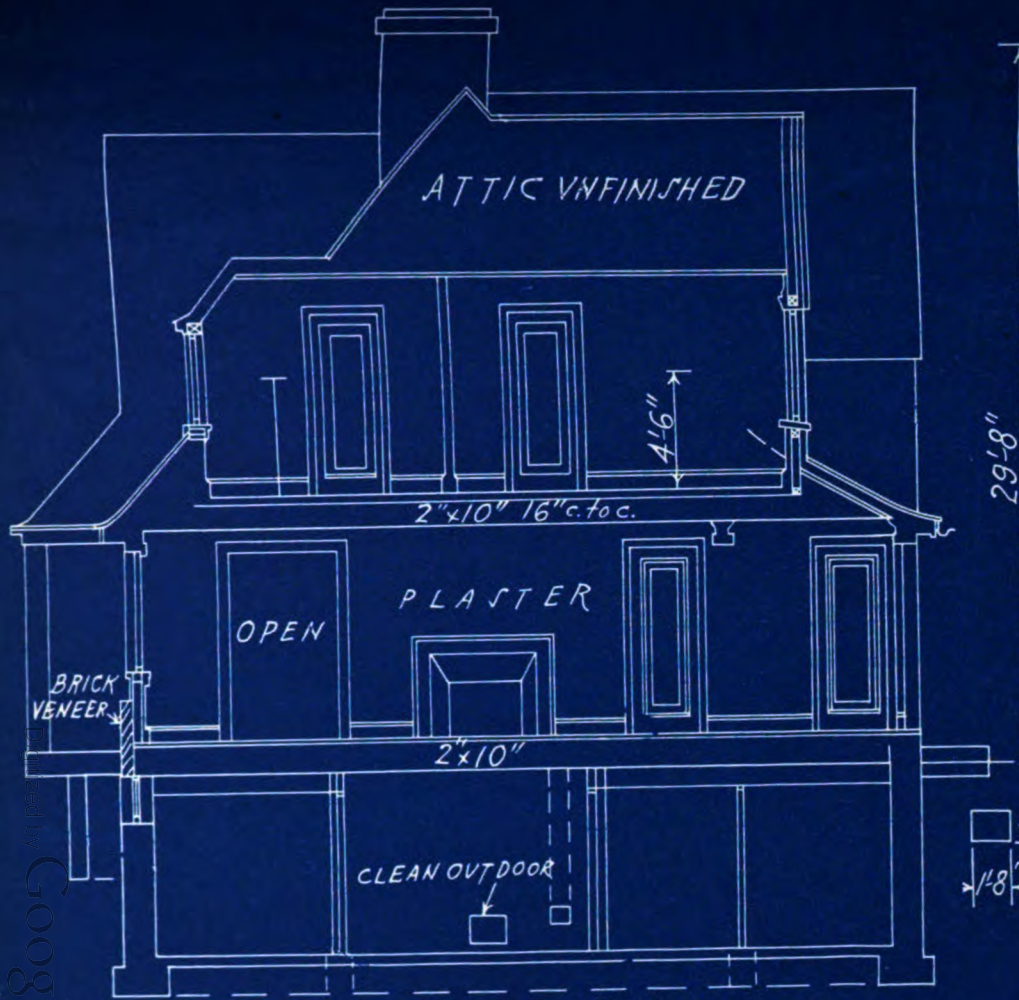
PORCH

27'-6"

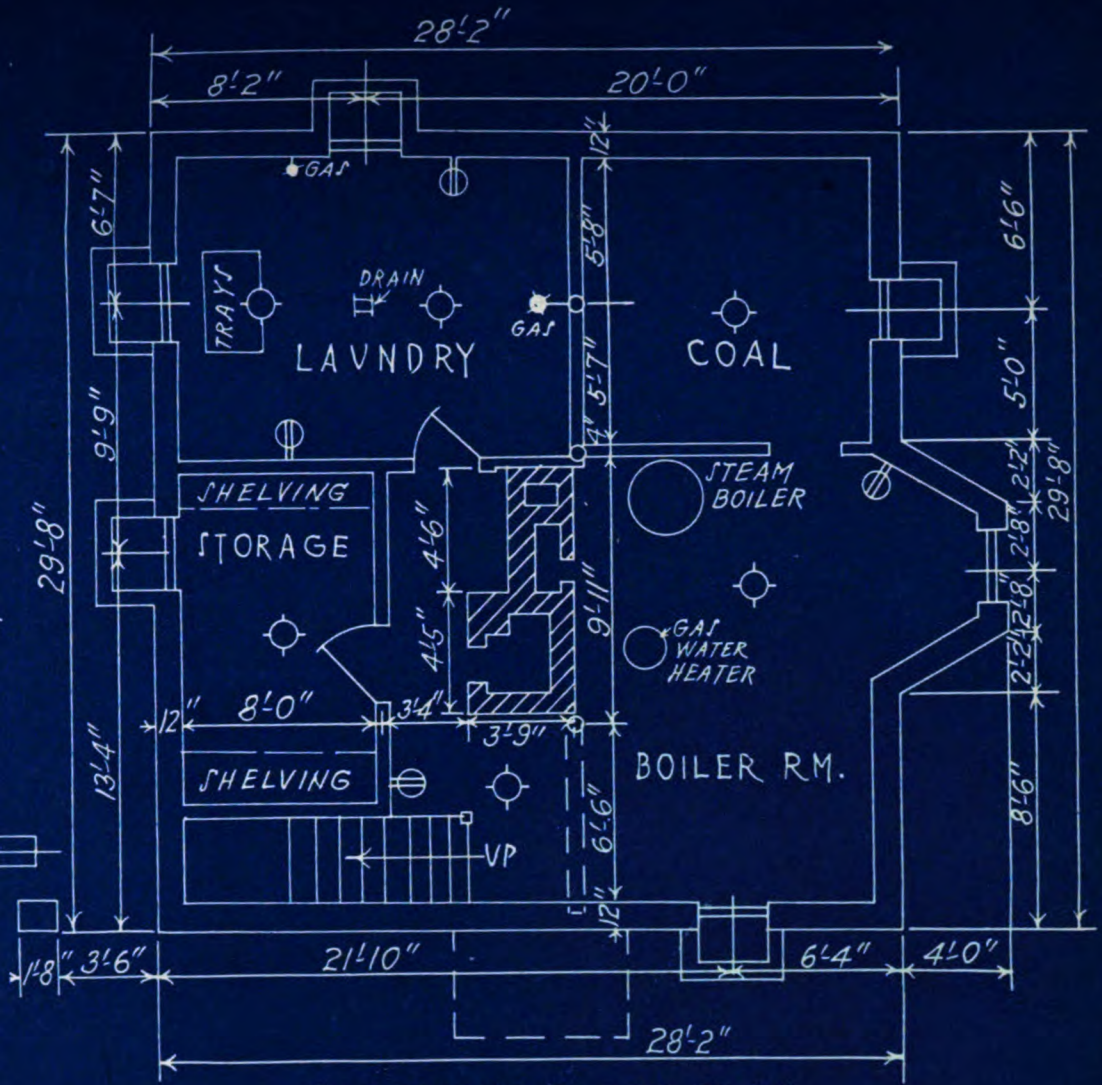
FIRST FLOOR PLAN



SECOND FLOOR PLAN

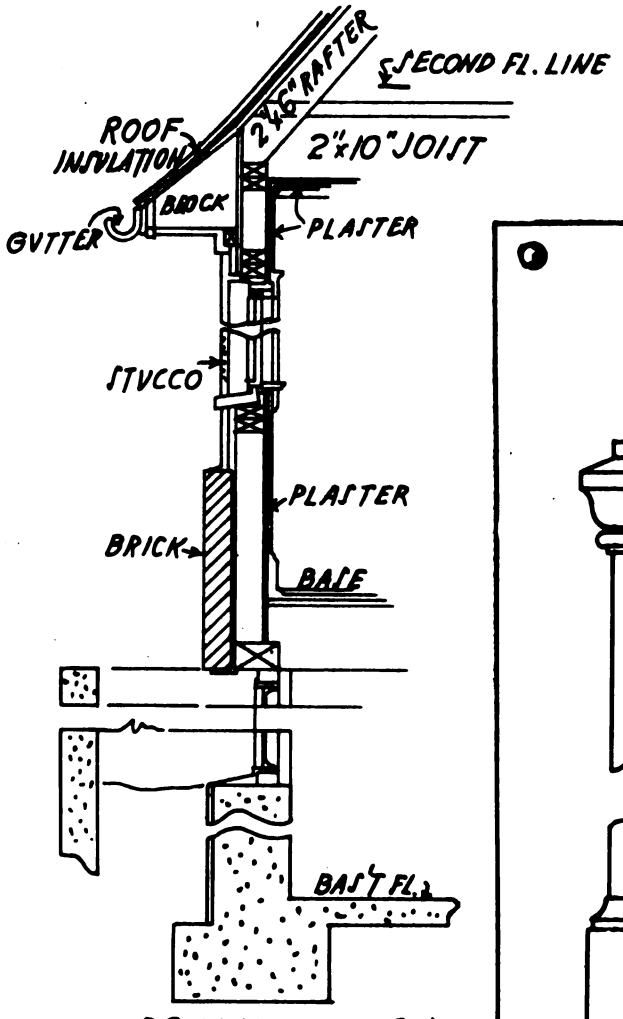


SECTION

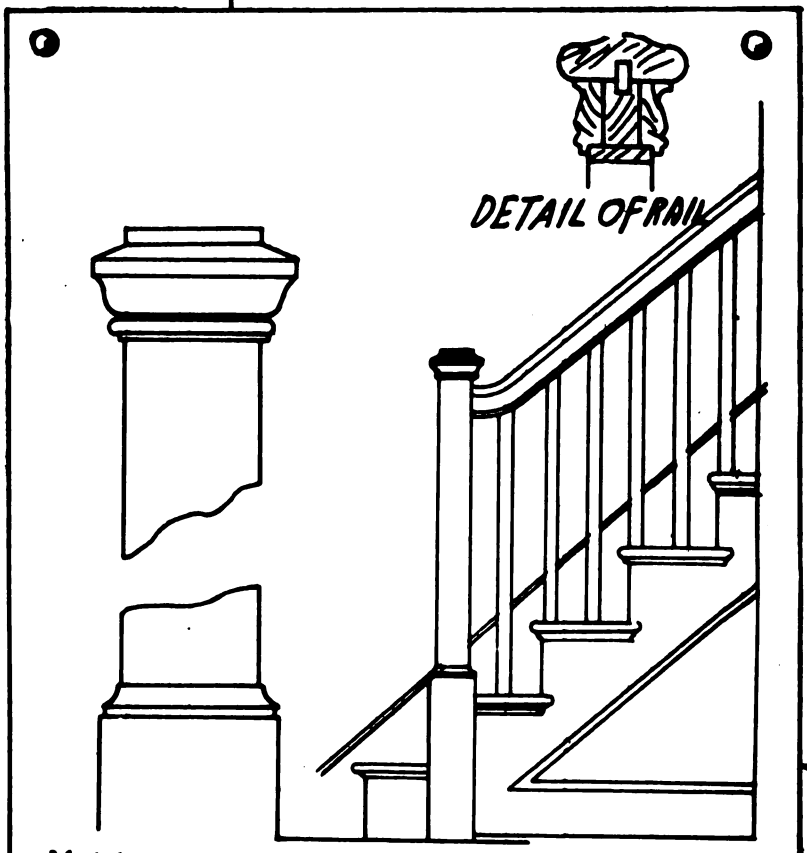


BASEMENT FLOOR PLAN

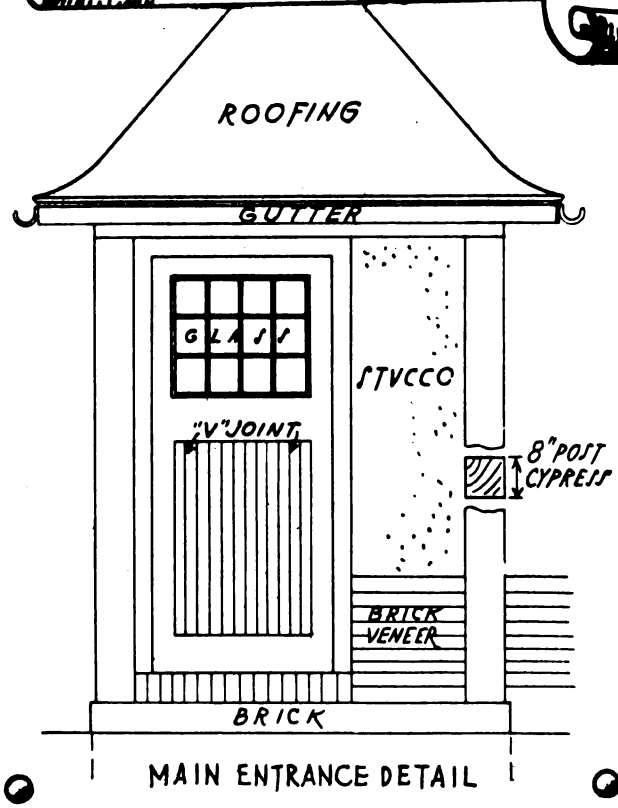
DETAILS



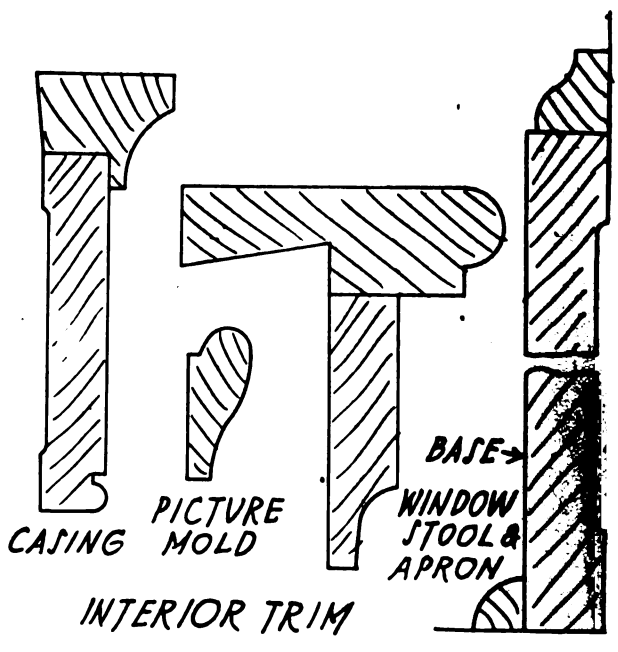
DETAIL SECTION



NEWEL POST ELEVATION OF STAIR



MAIN ENTRANCE DETAIL



INTERIOR TRIM

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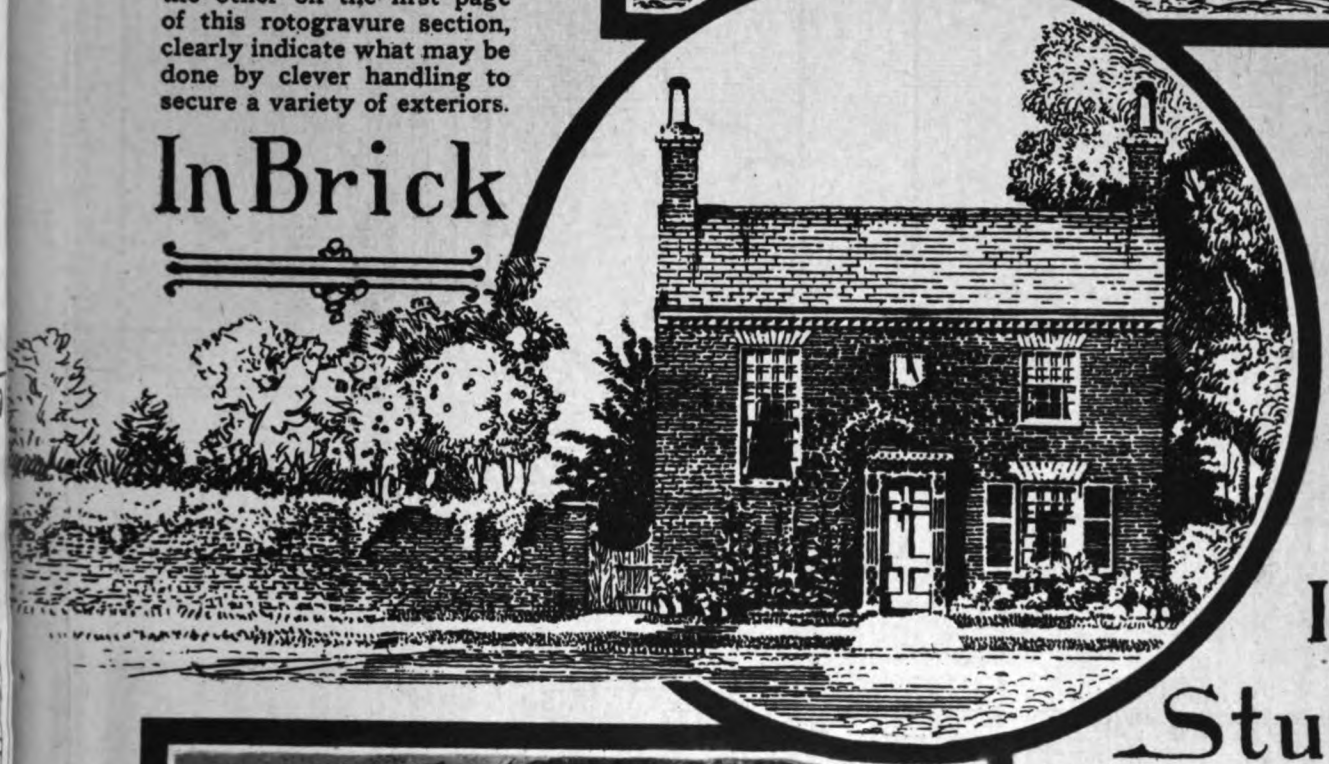
In Wood

THE primness of the Olde New England Colonial with its projecting second story has been well carried out in this adaptation redesigned for this group by John Floyd Yewell and Arthur Bates Lincoln.



THE same house has been designed here by the same architect with an exterior of brick and roof of slate. Exterior treatment follows the traditions linked with the Georgian period. These three designs, also the other on the first page of this rotogravure section, clearly indicate what may be done by clever handling to secure a variety of exteriors.

In Brick

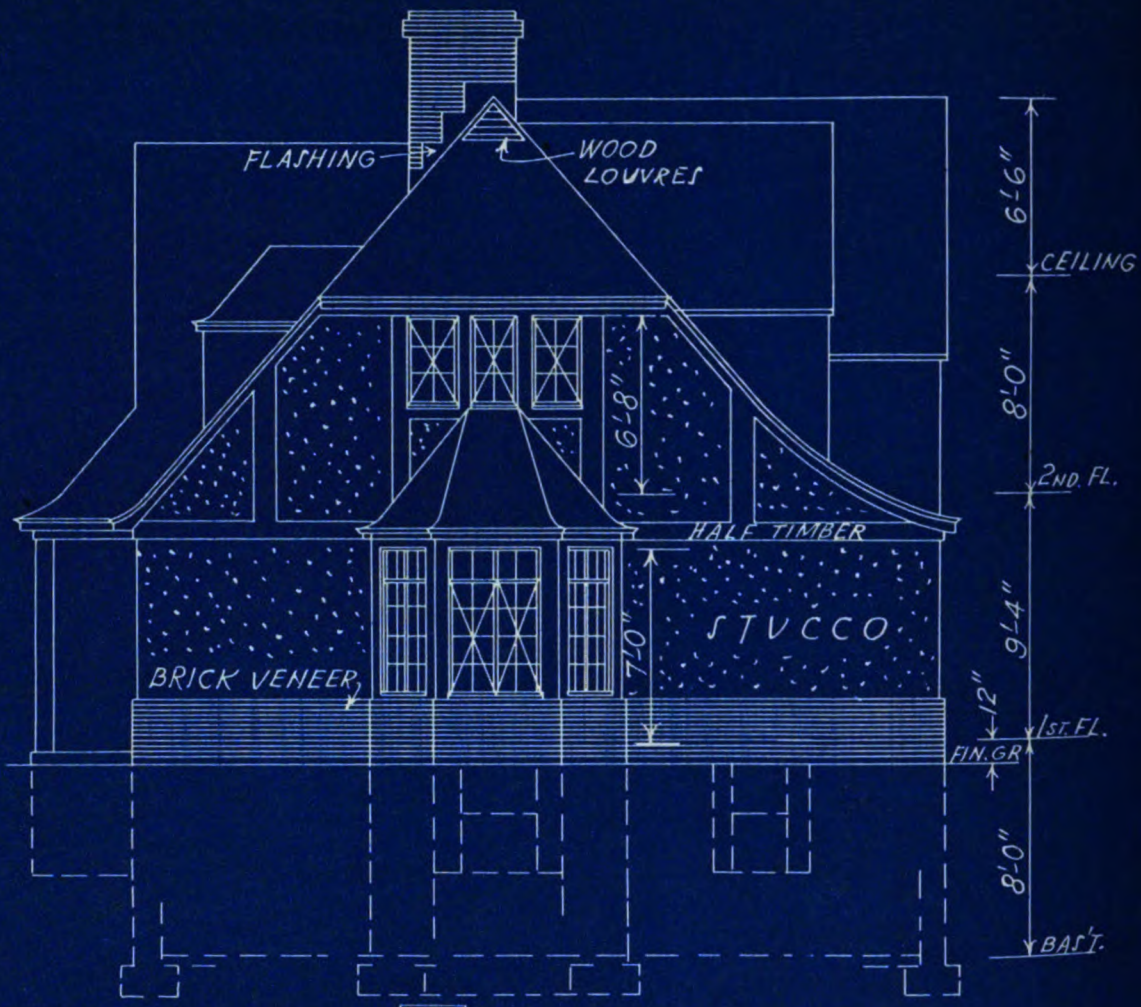


In Stucco

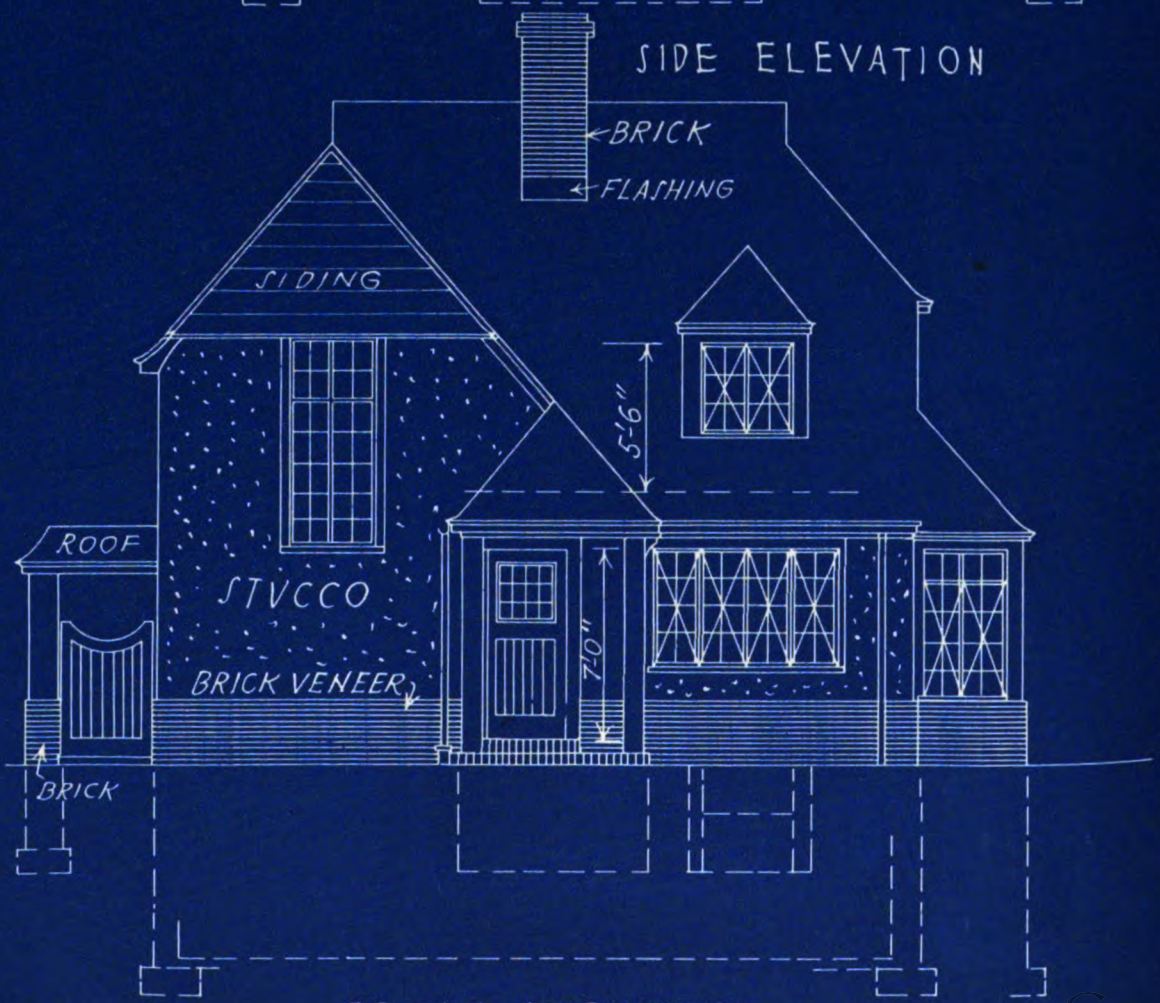


THIS design in stucco is the original master design for this group. It is a six room English cottage adaptation designed by Oscar T. Lang, architect, of Minneapolis. This home design was a prize winner in the 1921 National Architects Small House competition conducted under the auspices of the Chicago and New York Own Your Own Home Expositions according to the rules of the American Institute of Architects. It has already been built in practically every state of the Union.

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SIDE ELEVATION

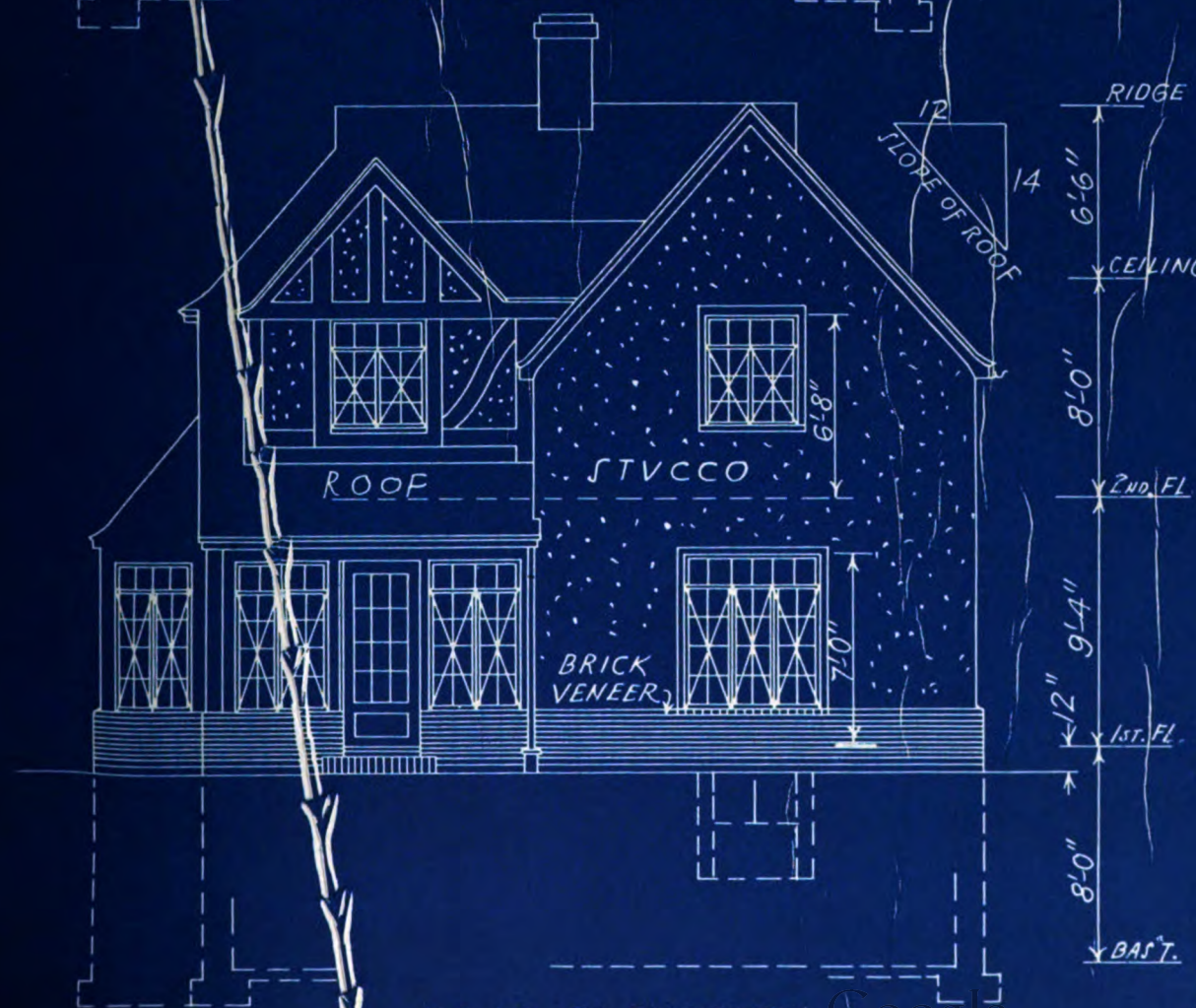


FRONT ELEVATION

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LEFT SIDE ELEVATION

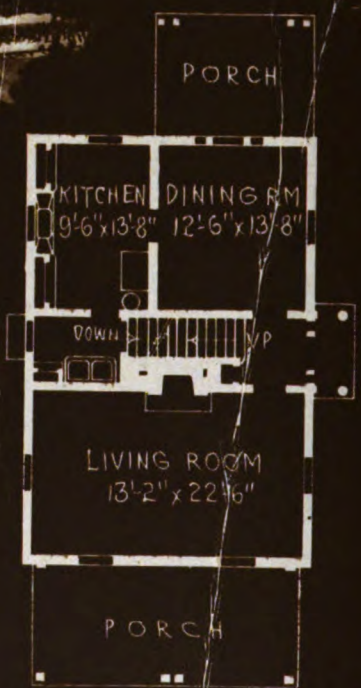


REAR ELEVATION

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Deft Handling Creates Four Homes *of* Beauty







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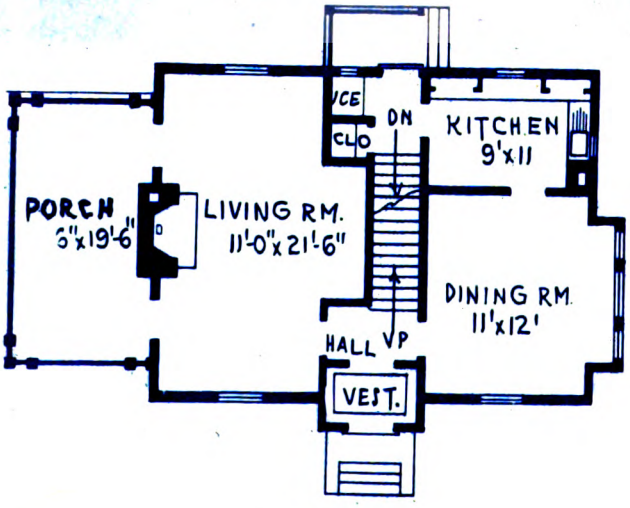
UPPER picture on opposite page is original master plan for this charming group of four house designs that transform an ordinary box type of house to homes of beauty. The original home was designed by John Floyd Yewell and was a prize winner in the 1921 National Architects Small House competition. The Spanish Villa, the Dutch Colonial, and the English farmhouse type have been designed for the same floor plan by Mr. Yewell and Arthur Bates Lincoln.

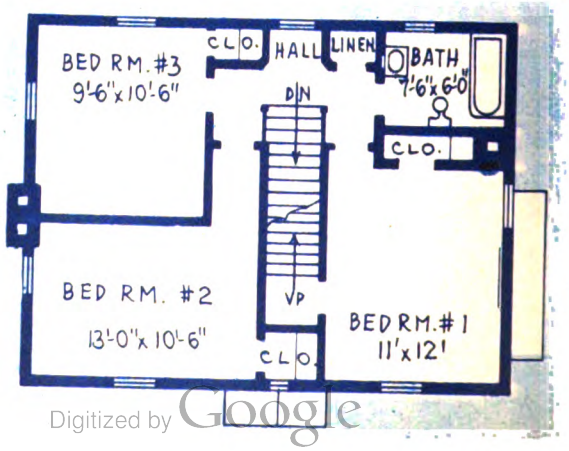


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A Quartette *of* Harmonious Designs

ON this page is the original master plan for this group of four interesting homes. Here we have the New England Colonial in wood. On the opposite page the upper picture is of a modified English cottage design of brick veneer, stucco and wood, with a suggestion of the Norman. A French cottage in stucco and a brick design with a tendency to the Dutch Colonial complete this group.





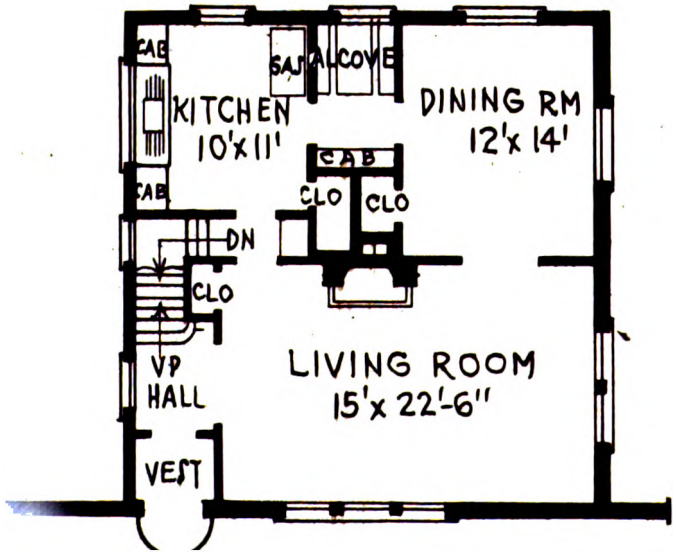
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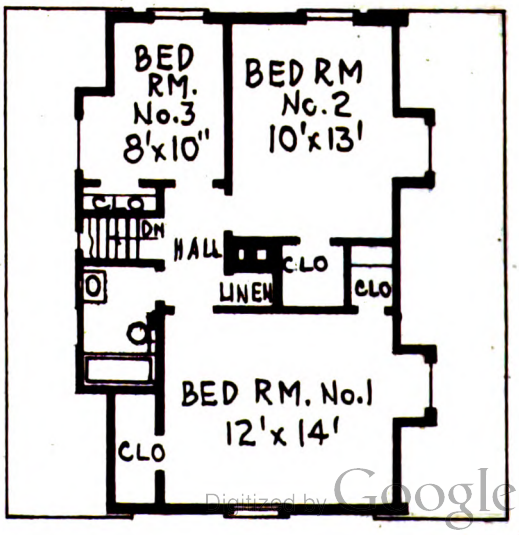
ORIGINALLY designed by Architects Small House Service Bureau. Re-designed for Home Owner's Service Institute Campaign by John Floyd Yewell and Arthur Bates Lincoln who also designed the three adaptations shown on this page.



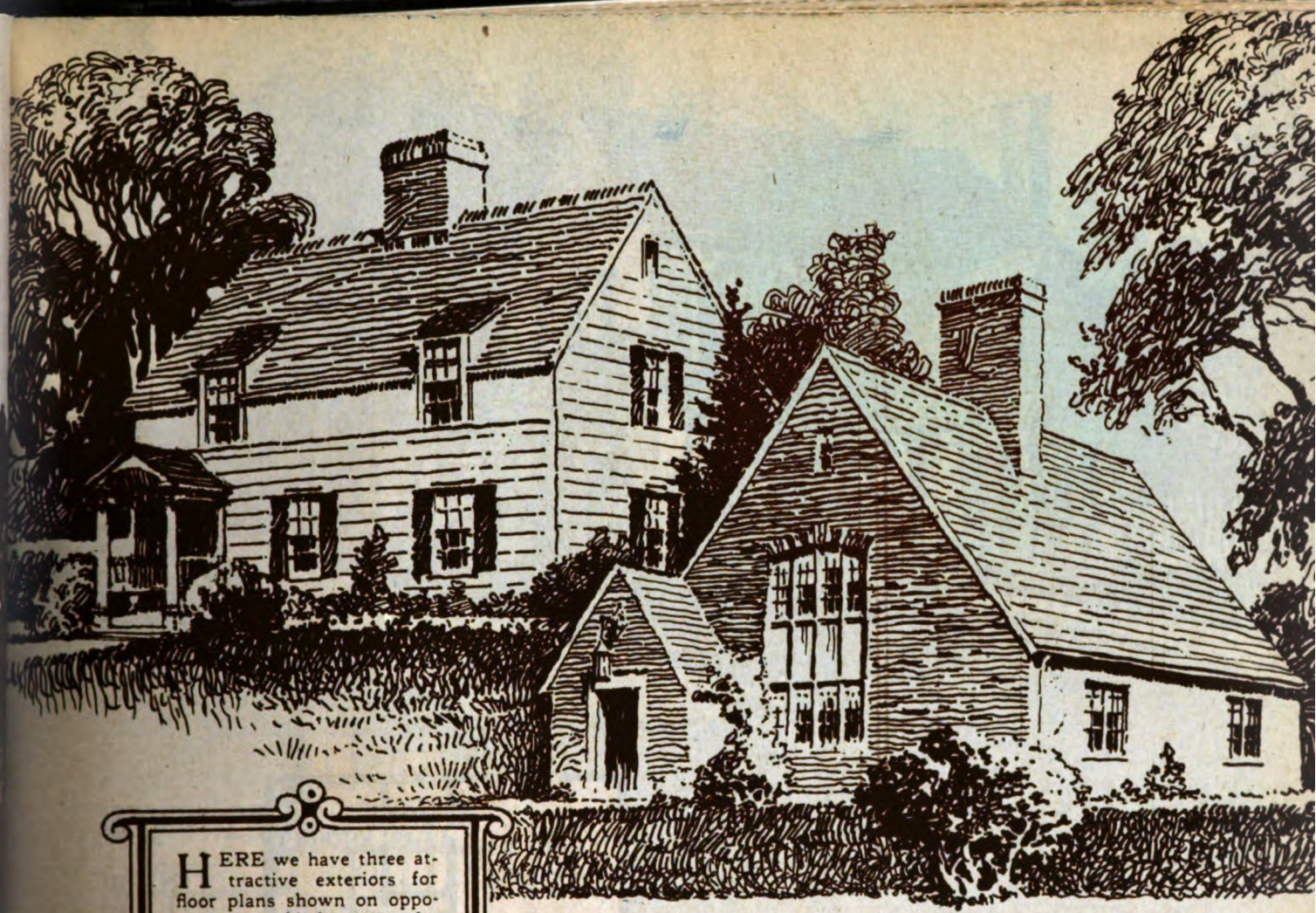
Snap and Art Lend Distinction *to this* Group

THE original master plan carried out in a stucco exterior in the Norman French cottage style. Designed by Arthur Bates Lincoln, architect. On opposite page three other clever adaptations of this design are shown.





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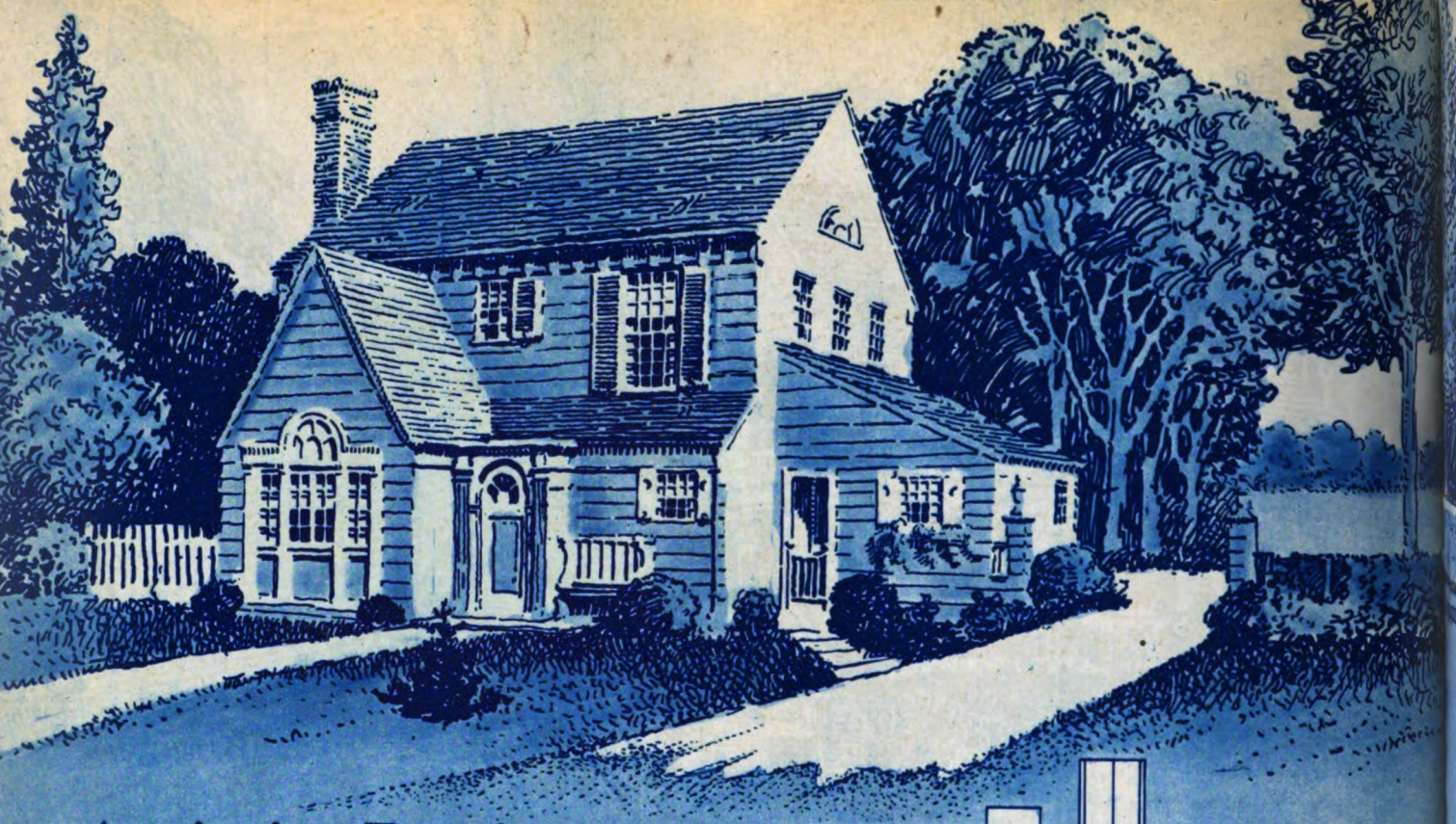


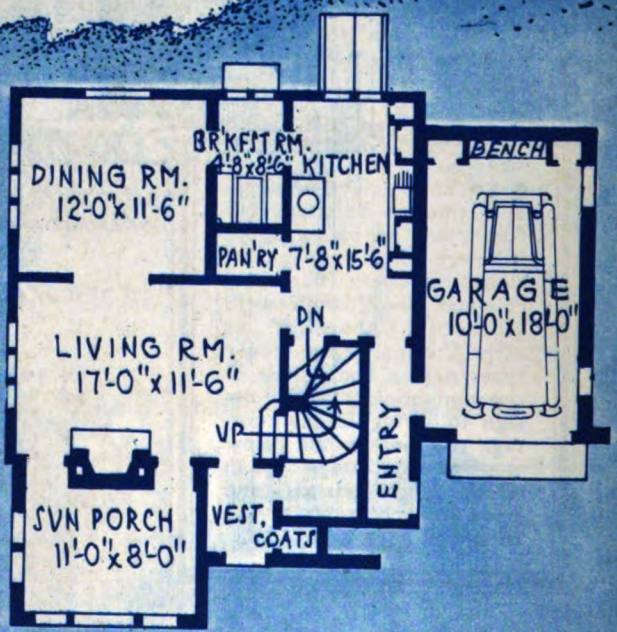
HERE we have three attractive exteriors for floor plans shown on opposite page. All four were designed by Arthur Bates Lincoln and John Floyd Yewell, architects. Above is an early Colonial frame house type; next a home built of common brick with its design following English cottage traditions while below is a Brittany cottage type in which brick, stucco and wood add character to the ensemble.

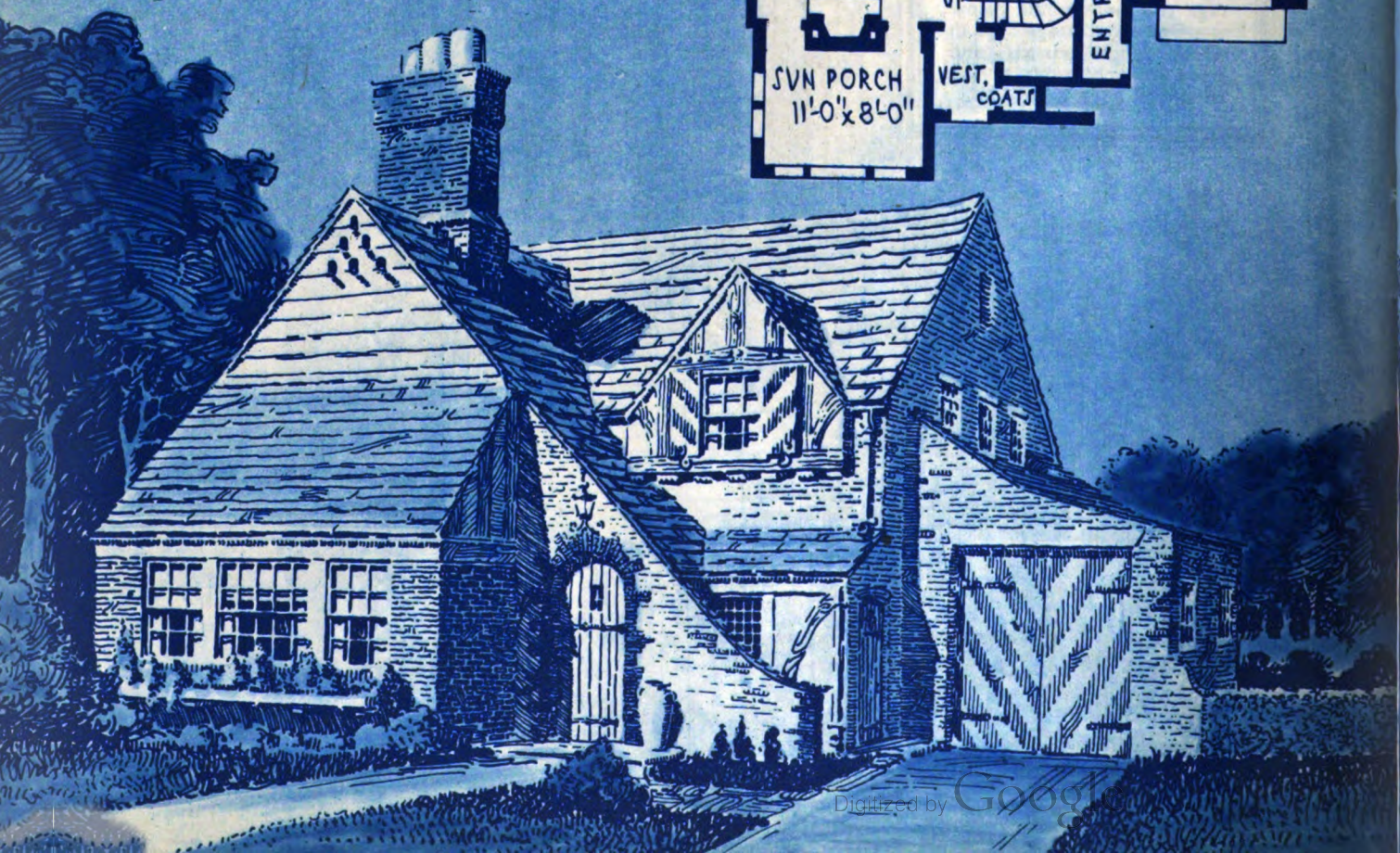


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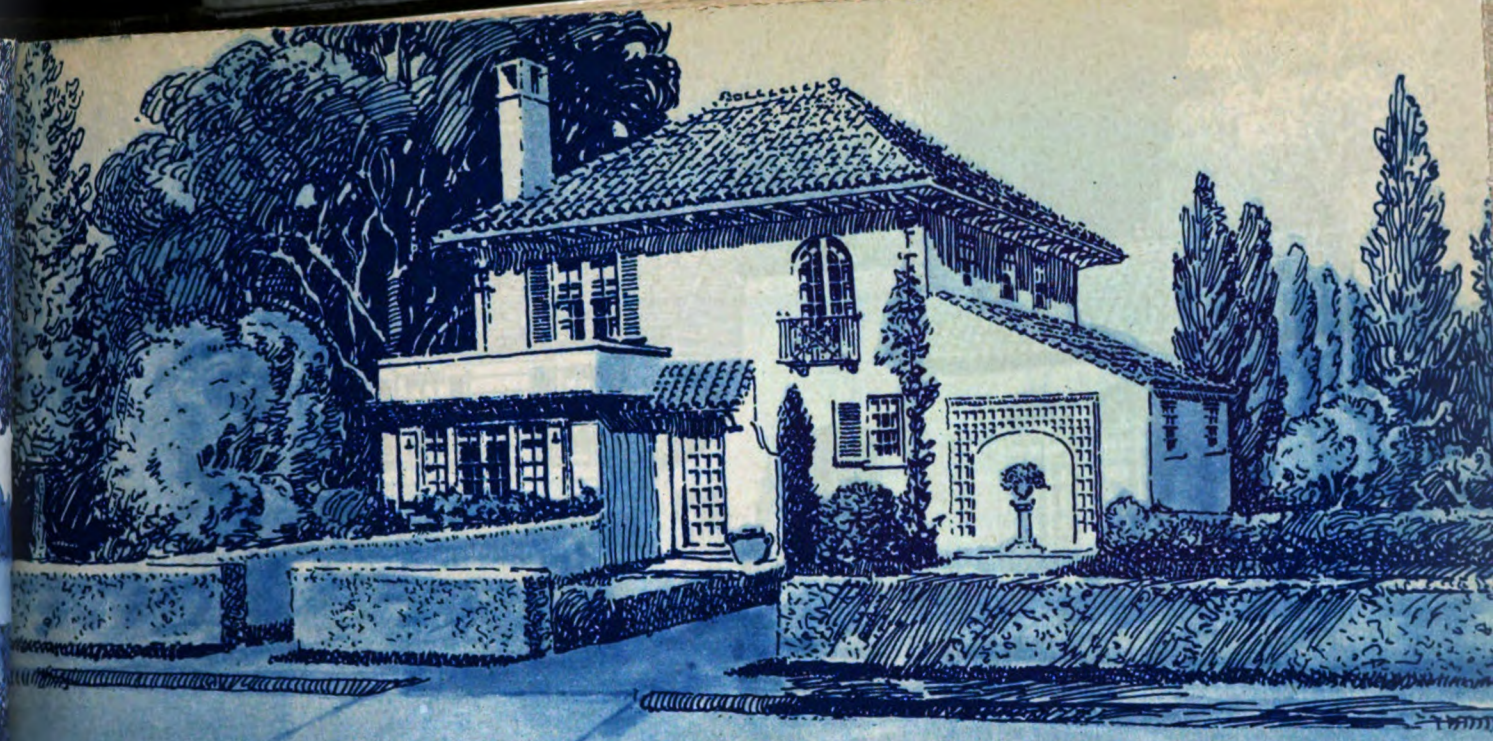
Artistic Designing Revealed In These Four Homes

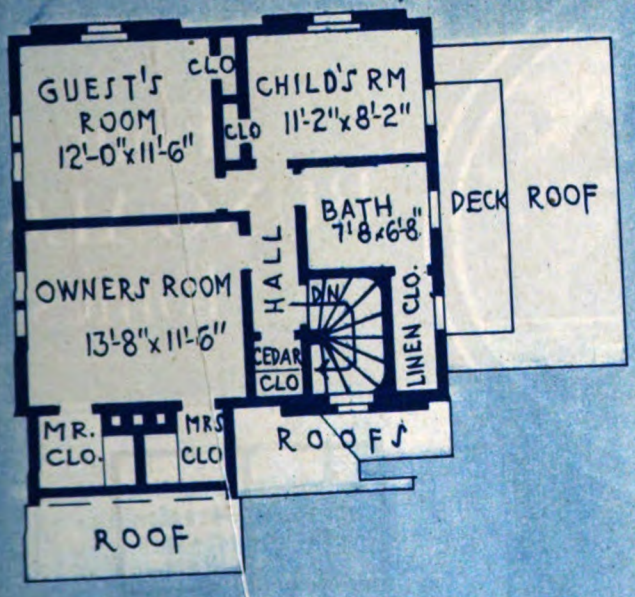






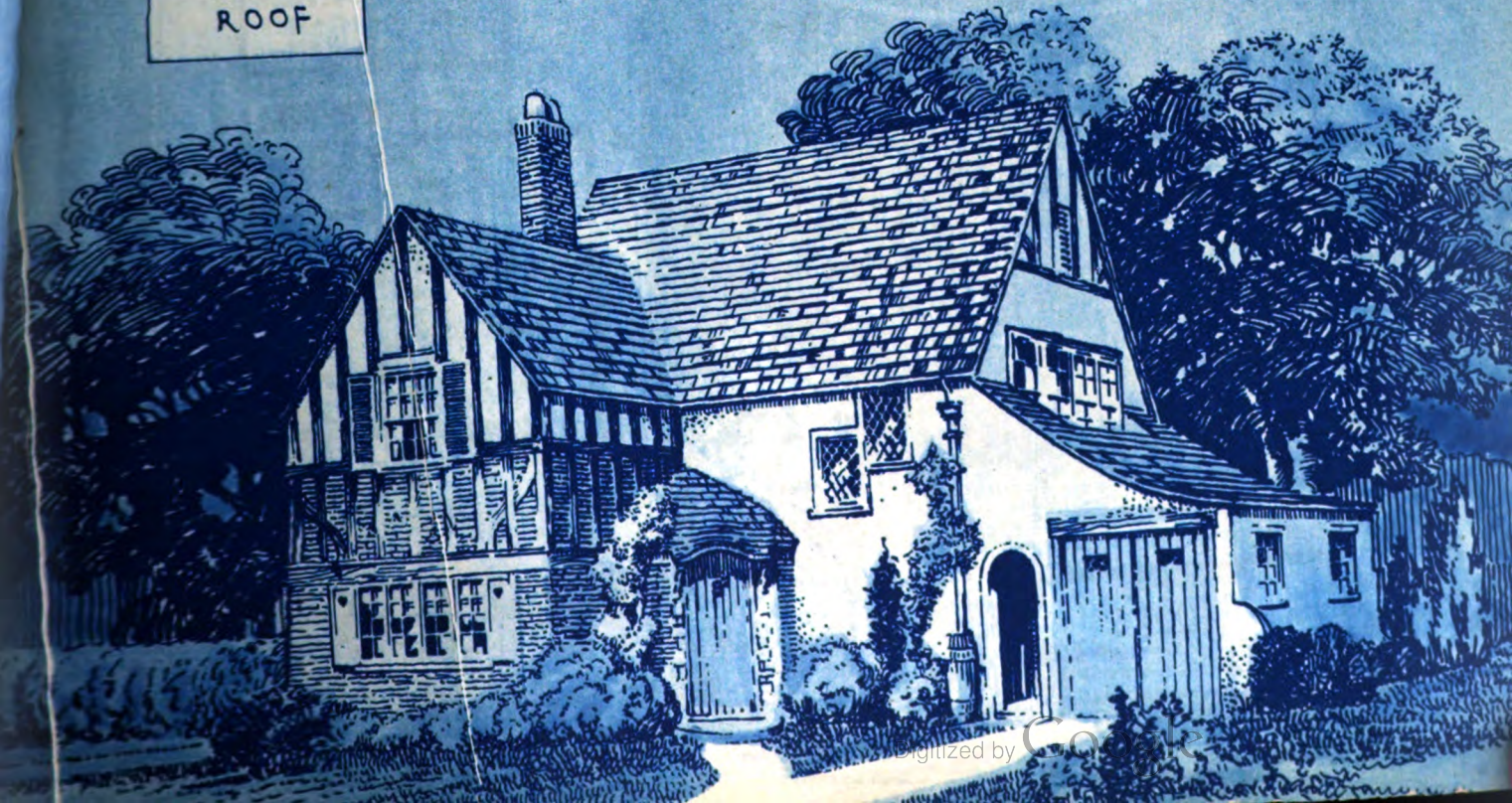
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THE original master plan in this group of four house designs was that of the Elizabethan house shown in lower picture on opposite page. This was designed by Henry G. Jefferson architect. Bronxville, N. Y.

The three other designs showing wood construction, concrete construction and combination of wood, brick and stucco are the combined work of Messrs. Jefferson, Yewell and Lincoln

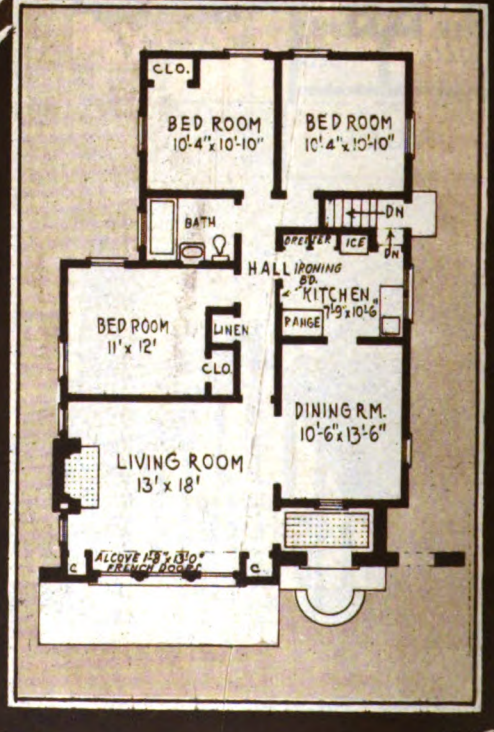


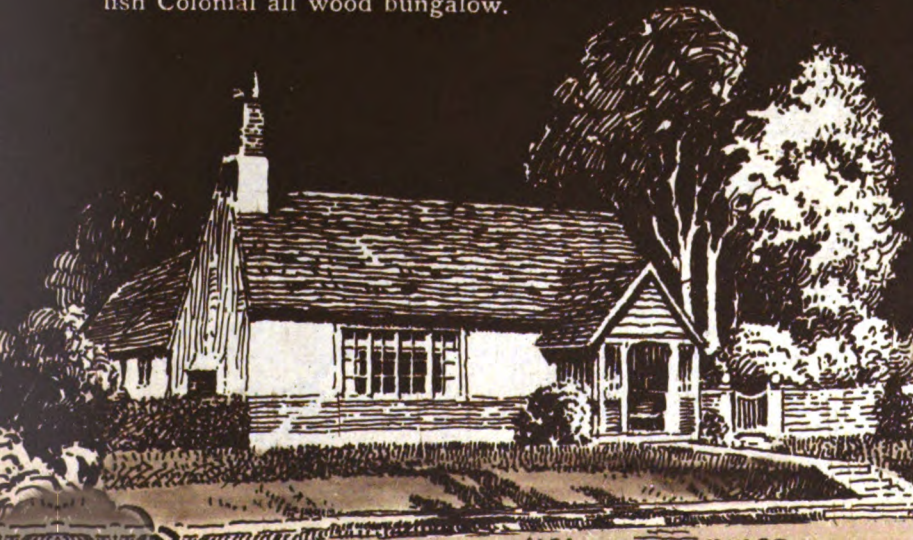
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Four BUNGALOW Homes



THE Spanish Mission type bungalow is the master plan for this group, originally designed by the Architects Small House Service Bureau, and redesigned for Home Owner's Service Institute Campaign by John Floyd Yewell and Arthur Bates Lincoln, who also designed the Norman French style bungalow with common brick walls, and the Devonshire English farmhouse of frame construction in combination with brick veneer, stucco and wood siding; also, the charming English Colonial all wood bungalow.





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THE EDITORIAL PAGE

Building Plans That Are Not

ONE of the greatest troubles that builders have to contend with are the half baked plans and specifications furnished by some architects and owners to contractors for a bid. If contractors would just get up enough courage and return such incomplete plans and say they cannot bid on such plans, a reform will take place, but not before.

Building in 1926

WE are glad to see that quite a number of papers are now waking up to the fact that the building business for 1926 is going to be good despite all the pessimistic reports that jump into print every now and then. Last October BUILDING AGE AND NATIONAL BUILDER publshed a survey based on good, reliable information secured by us first hand. This indicated that 1926 would be a good year for builders. It certainly is gratifying to note that construction contracts awarded this year exceeeded our predictions.

Safety in Construction

DESPITE the fact that we are building structures that are safe, the fact remains that too many builders are not abiding by any of the rules and are using any makeshift for scaffolding. In such cases one can see that compensation insurance is a bid for carelessness by the unthinking or inhuman contractor, as he figures that the insurance will protect him and take care of his men should they be injured or killed. If some of our labor union enthusiasts would stop their fighting about picayune affairs and demand that safe working conditions must exist, it would help.

Is the Building Industry to Blame?

THE problem of securing and keeping domestic help is a very hard one except for very wealthy families. The moderately well to do families live in high class apartments and they have "so many rooms and baths with a kitchen and two or three maids' rooms and baths." The bedroom furnished for the maid is about the minimum allowed by the building code and the bath is a very commodious affair that you have to step into over the back end and so short it looks like a wash tub set on the floor, while the water closet is so cramped that to sit down one's knees have to be drawn up or one must leave the door open! When will architects and owners realize that maids are human beings and really like to be treated as such. What reason (except dire necessity) will make a girl take a position and live in such quarters? Many jails are far more pleasing. It is a very serious economic mistake not to provide accommodations for household help.

The Trade Marked Building

MORE and more use is being made of standard building materials that are well advertised and known to the public. Houses so built can be sold easier to discriminating buyers, for they have confidence in the construction. A great many manufacturers now furnish small signs or stamp their material. Builders are also using small brass plates indicating that they were the builders. The day is probably not far distant when the public will be demanding labelled houses just the same as they look for it when they buy a watch, clothing, automobile, etc.—The trade mark counts.

Business Can Be Had

DESPITE the general prosperity in the building industry there may be some localities where there is a local or sectional depression. The builder in such localities is confronted with a problem, he has either to move away or try to stir up business. If he has made a favorable reputation in the neighborhood the best thing is to stir up some trade. Many houses are in need of repair or remodelling, etc. Local bankers may be able to suggest some way to finance the improvement so as to keep the men of the town busy. Such cases need co-operation in the broadest sense.

Our Future Workers

THE Chamber of Commerce of the United States has sent out a warning that a shortage of skilled workmen will continue unless there is a more concerted effort to train apprentices in the various industries. This condition confronted the building industry very forcibly within the last few years.

American business men in all lines can do nothing more important than aid in educating or training young men in their respective lines of work. Sons usually follow in the footsteps of their fathers and it is a proud builder indeed that has several of his sons working with him. Unfortunately, some builders do not have any sons, but they can put some boy under their wing and teach him the rudiments of the business. One can even go further than this and adopt a small boy.

Builders are making a good living and many can afford to give a home to some homeless child. Good work along these lines is being carried on by the Child Placing Agency of the State Charities Aid Association—105 E. 22nd Street, New York City.

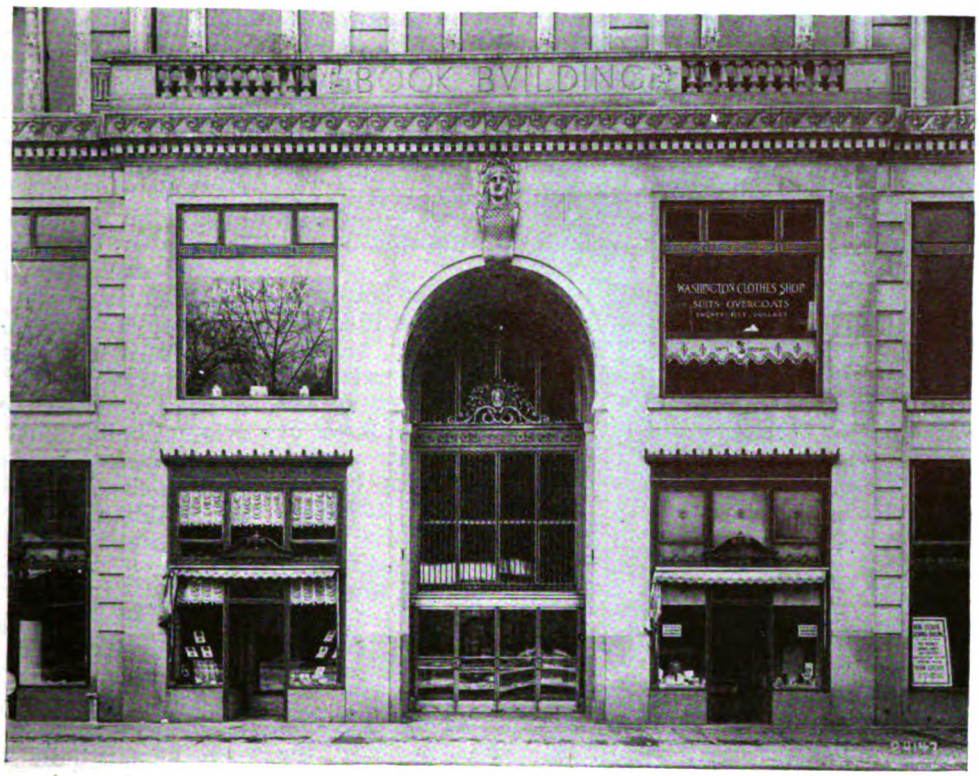
If one of our readers would like to do a good turn in the world, and perhaps one for the building industry—apply to this agency. Perhaps some little homeless shaver who is now wondering what is to become of him will be a credit to the building industry if you give him a lift.

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The Book Building and Its New Tower Annex—A Night View

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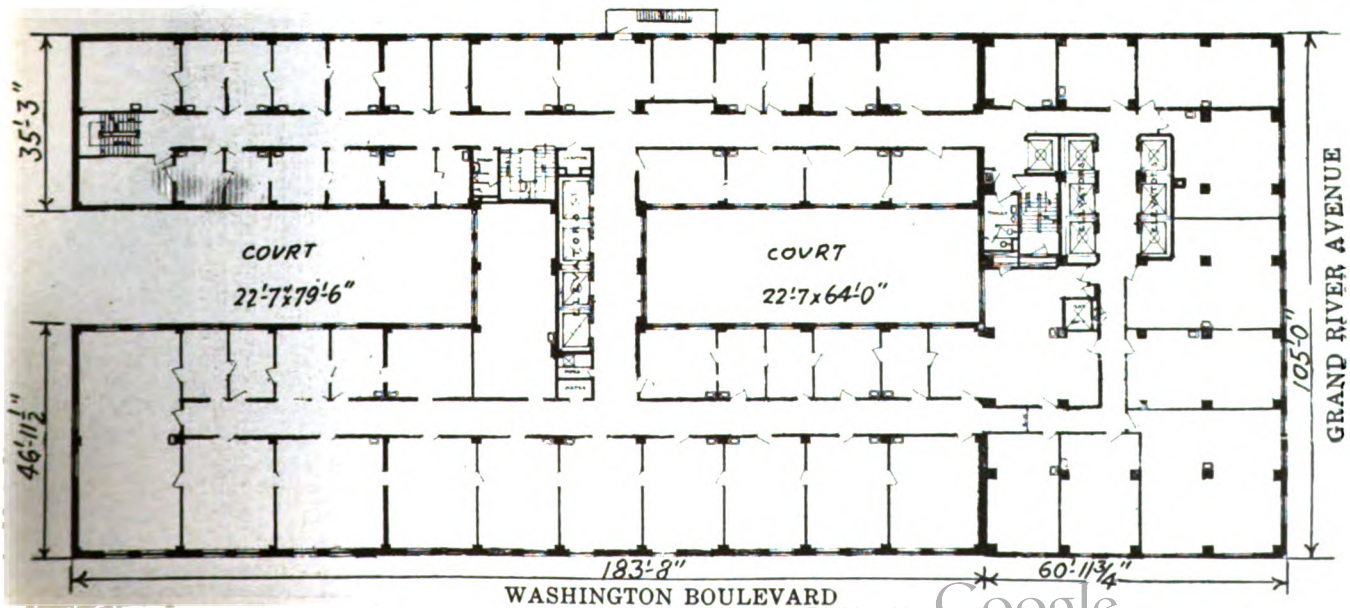
Building Detroit's Tower

The Book Tower
Detroit, Mich.
Louis Kamper
Architect
Starrett-Dilks Co.
Builders

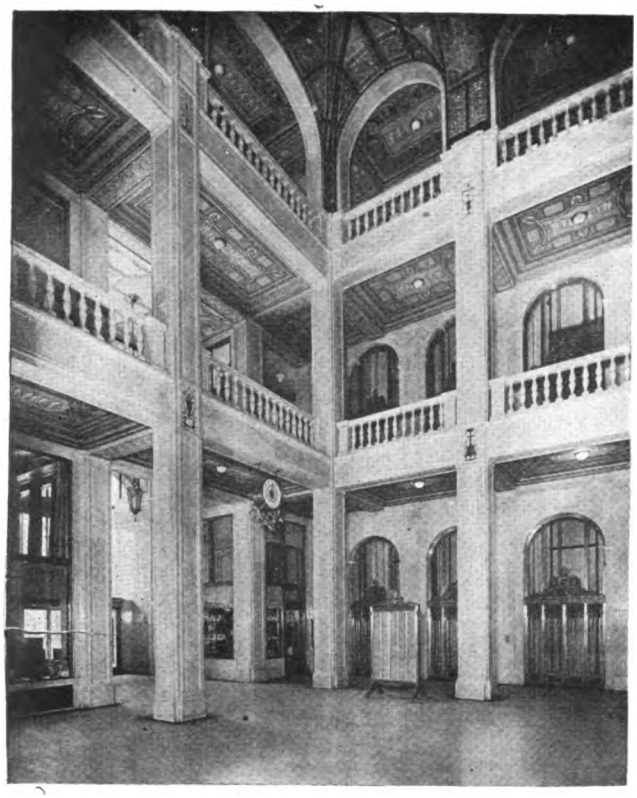
MODERN office building demands are responsible for many curiosities in our commercial building line. Expanding business and demands for increased space makes the adding of an annex imperative in many cases. In a great many cases these annexes far overshadow the older buildings and this is true of Detroit's new construction masterpiece known as the Book Tower.

This towering structure, 470 ft. high from the street level, or a total of 595 ft. from bottom of foundation to the top of the roof, is Detroit's highest building, and one of the highest in the world. The Tower is easily visible some 25 miles away above Detroit's skyline.

The Tower portion annex of the original Book Building is 60 x 105 ft. in size. The first 13 stories correspond in detail with the original Book building but from the 14th floor upward the Book Tower is a



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MAIN entrance opens to rotunda. Its spaciousness adds dignity and impressiveness. Especially as it is carried out in Botticino marble and surmmounted by an elaborate bronze and glass dome

separate entity, belonging to the original building yet entirely apart from it. The heavy cornice on the 13th floor of the original Book Building has not been carried around in the Tower but an artistic break has been made by having heavy carved window frames for some of the window openings corresponding with those on the same floor of the original building. This bears out a harmonious appearance as seen by the passer-by in the street below.

Like the old building, the Tower portion is constructed of stone up to the 13th floor. Above this floor, terra cotta, stone and brick are used in combination. Above the 25th floor there is an ornamental molding encircling the building with carved stone cornice pieces. These cornice breaks and ornamentation give a pleasing touch when viewed either near or from far.

Above the 37th floor is a three-story Mansard Tower with a hipped roof of copper which is colored to a bright green thereby contrasting with the grey of the stone work below. This mansard roof effect artistically masks the usual pent house, water tanks, etc.

The foundation of the tower rests on hard-pan and not on bed rock as is so often the case with a high structure. The hard-pan here is a species of aggregate of clay and lime and boulders and its density compares with that of concrete.

Forty enormous borings or shafts 6 ft. in diameter mushrooming out at the bottom to twice that diameter and 90 ft. high of solid concrete are the supports of the building. Each of these concrete columns must bear a weight of 100 tons. The gigantic frame work of steel for the tower has a weight of 5,000 tons and the entire structure has a weight of 40,000 tons.

Down in the sub-basement are the vitals of the building. Here is placed the machinery for operating its many services. There is a great electric converter, pumps for air and water, refrigerating machines and all the other activities of a great industrial unit of this kind. The apparatus needed to operate a building of this size resembles the machinery of a medium sized industrial plant in magnitude.

THE matter of water supply alone was a new one for Detriot. It would not do to merely pump water to the top of the building and let it descend thence to the various levels. The pressure of this water, on the lower floors, would be such as to burst the fittings, tear them loose and flood the rooms. Therefore it was necessary to construct three water tanks, at the thirteenth, twenty-seventh and thirty-seventh stories, each supplying the floors below it to the range of the next tank. Thus the weight of the water in the piping system is not rendered excessive anywhere. Because of this arrangement, three pumps are required in the sub-basement to supply the three tanks.

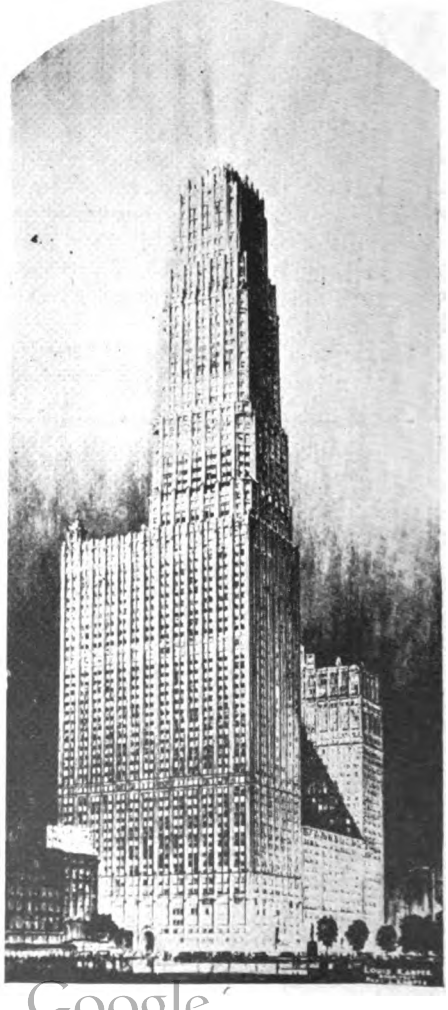
Our illustrations show this interesting building as it appears at night. A system of indirect lights flood the entire upper body of the building making it a beacon to be seen many miles away. Another view represents the classic entrance.

The floor plan shows how space is divided into various rooms. The 60 ft. section towards the right on this plan is the Tower section and all the floors above the 13th in this Tower follow practically the same layout. The tower is served by its own group of elevators. Imposing as this Tower annex is it will be overshadowed in a way if the plans mature to add another annex at the left end of the original building on which the owners purpose to have erected an addition which will make it the outstanding building of the world.

The present intentions are to erect a Tower 873 ft. high above the sidewalk line. This will make it the world's highest building. It will have 85 floors.

The Woolworth Building in New York is now the world's highest building, being 792 ft. high. The only human built structure exceeding this in height is the Eiffel Tower at Paris which is 998 ft. high.

It is to be hoped that the plans will be carried through. It will prove another building marvel.



A SKETCH of proposed new 85 story Tower annex to Book building. The Tower described in this issue is indicated in this sketch at the extreme right while the original 13 story building is sandwiched in between and dwarfed by contrast

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SUCCESSFUL *Because* He Likes *to* Build

Told by
J. H. Hawkins



A SOMEWHAT informal introduction to Glenn H. Davidson of Seattle, Wash., a builder who attributes his success to the pleasure he finds in home construction

BECAUSE I like to! That may sound like a simple answer to the question: "To what do you contribute your success?" It did to me, I know.

I was talking to a successful building contractor, a married man with children, who have and will graduate from a university, and I knew that what he said would have sound reasoning behind it. Because of this, I considered his reply to my question as to why he built houses, and why he was successful at it.

Isn't it true that the more a man loves his work, the harder he will work at it? And the harder he works, other things being equal, the more successful he will be? That, then, explained the answer, "Because I like to!"

The name of the man who told me that is Glenn H. Davidson of Seattle, Washington. His picture shows him to be an upright young man. There is no doubt but that he is upright, because every one of the happy families that live in the houses he built for them will swear to his squareness. But that doesn't explain the "young" look.

Barbara Davidson graduated from the University of Washington, and Kate and Lorna are on their ways to do likewise, so maybe father Davidson isn't quite so young. Still, the picture, and to talk to him, would indicate his having a physique that would not be outshown by a college football hero of an even twenty summers.

Mr. Davidson comes from a family of builders. He is far from the "old stamping grounds" of his youth, where stand sturdy monuments in the form of substantial buildings not only to his father, but to his father's father as well.

When Grand Rapids, Michigan was no more than an Indian trading post on the banks of the Grand River, one Louis Carlisle Davidson came to town from New York State and built one of the first houses in the village. He had a stockade around it to keep the Indians from sitting on his kitchen steps and becoming too friendly. It may have been a precaution as well, for pioneer men in those days considered things from all angles. They had no recourse or protection beyond their own initiative.

Several children were raised in the Davidson family, and the sons learned their trades from their father. They were all carpenters and masons, and later in life became building contractors. George I. Davidson married and raised a family. He built a good many buildings and houses in Grand Rapids while Glenn H., his oldest son, was growing up. Glenn H. learned to push a saw and swing a trowel in his early years, but two generations of Davidson builders in Grand Rapids sort of made it an "old story" for the lad. His grandfather had picked up his belongings and had walked to the proverbial green fields, so why not the grandson's following suit? He did.

Twenty-five years ago Glenn H. Davidson set out from Grand Rapids astride a bicycle. With strong legs, a few dollars, and much courage, he peddled it along until the



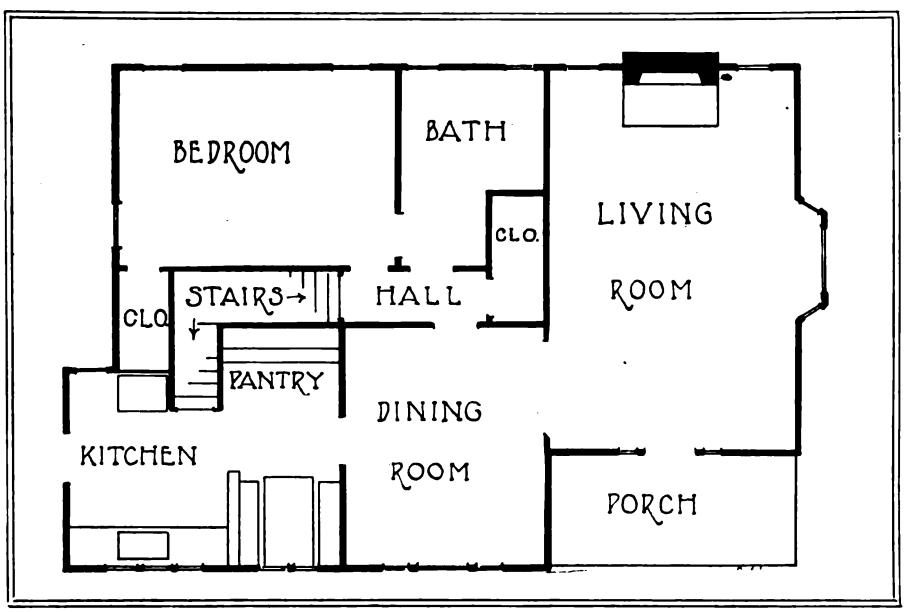
A COLONIAL house that other builders might well pattern after. The plan shown on the next page is typically commodious and convenient in arrangement. Note entrance seats

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Rocky Mountains were behind him. The Cascades, too, made the sun peek over their crests to shine on the young traveller before he called it a job, and settled down. Seattle, the gateway to Alaska, thrilled him, and in that city he set to work.

The following year, after his arrival in the far-west city, he "imported" his sweetheart from back in Grand Rapids, and they were married. One may search from Bangor to Tripoli and not find a happier home than is now theirs. I sat in their living room before a cheerful fire, the misty Sound just





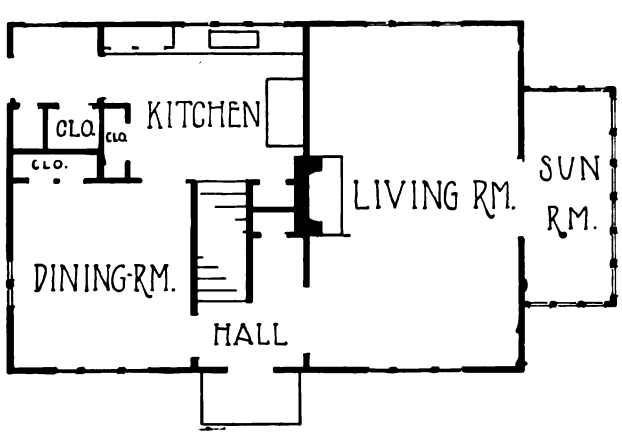
A BUNGALOW type that is very popular with Seattle home buyers. One of these can be built for a modest outlay of money while offering many advantages for the average family of three or four members

visible out of broad windows at my back. It's not an easy task to accomplish all that in a strange city, unknown, and broke to commence with.

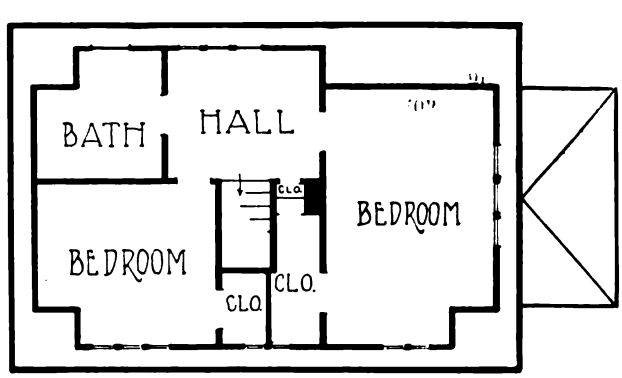
Although Mr. Davidson spends most of his time in the mortgage business nowadays, he can't keep entirely out of the occupation that is bred in his bones. He *must* build houses. I wondered how, without a steady organization and constant attention, he could make a success of house-building in competition with other contractors who had all the facilities and equipment. I found out the chief reason why.

Mr. Davidson said, "I like to build houses. I know what a thrill my wife and I experienced when we went into *our* first house. But, however, like most other people, we bit off more than we could chew, and our house was never quite complete. That fact put a damper on our happiness as time passed, and we weren't able to finish the parts that were left undone on account of lack of funds. I like to see young married people happy. It goes a long ways toward making their future a success, and their family contented. 'Happy Homes for Happy People' is what I like to build, and that is just what I try to do.

"An inexpensive lot to start with, and a house, complete in essentials but lacking in costly features which are not necessary, that is my recipe for success in building small houses. A *small* home to pay for keeps the



First Floor Plan



Second Floor Plan

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A BUNGALOW like this is within the reach of everyone that really wishes to make a substantial investment. The plan provides every needful accommodation and is extremely convenient in actual room layout

buyer free from the worry of large payments. He works better as a result, and gets his house paid for before he knows it. Then, if he prospers and outgrows his little home, it is easy to sell, and he may figure on a more pretentious roof-tree."

At one time Mr. Davidson stumbled upon a whole block of land that could be bought cheap. That is, it was cheap for that much land in a city, but the sum needed was quite large. Mr. Davidson mortgaged everything he could, and borrowed money on his good name. Every cent he could scrape together went into that land. He divided it into building lots and, as he said, reserved them for sites of future happy homes.

The price of an individual lot was low, and on each he built a moderate, complete little house. They sold easily, for they were designed well and constructed honestly. To be responsible for a block of happy homes is an achievement of which to be proud.

The spreading desire of owning one's home is a wonderful thing. It makes better citizens, more satisfied households, happier families, and gives to the young married man a certain feeling of stability which is impossible when living in a rented place. But the buying of a home must not be such a task that it saps the resources of the family purse to the extent of excluding from young married life all chances of enjoying a few luxuries now and then.

All work and no play, as everyone knows, makes hard lines in the face and irritable temperaments, and when that is the case, what enjoyment is there in the possession of a home?

Mr. Davidson realized this. He sold houses that fitted the buyers, their ability to pay the installments on the contract, and that would harbor a happy family rather than otherwise. His logic is good, and he has been successful.

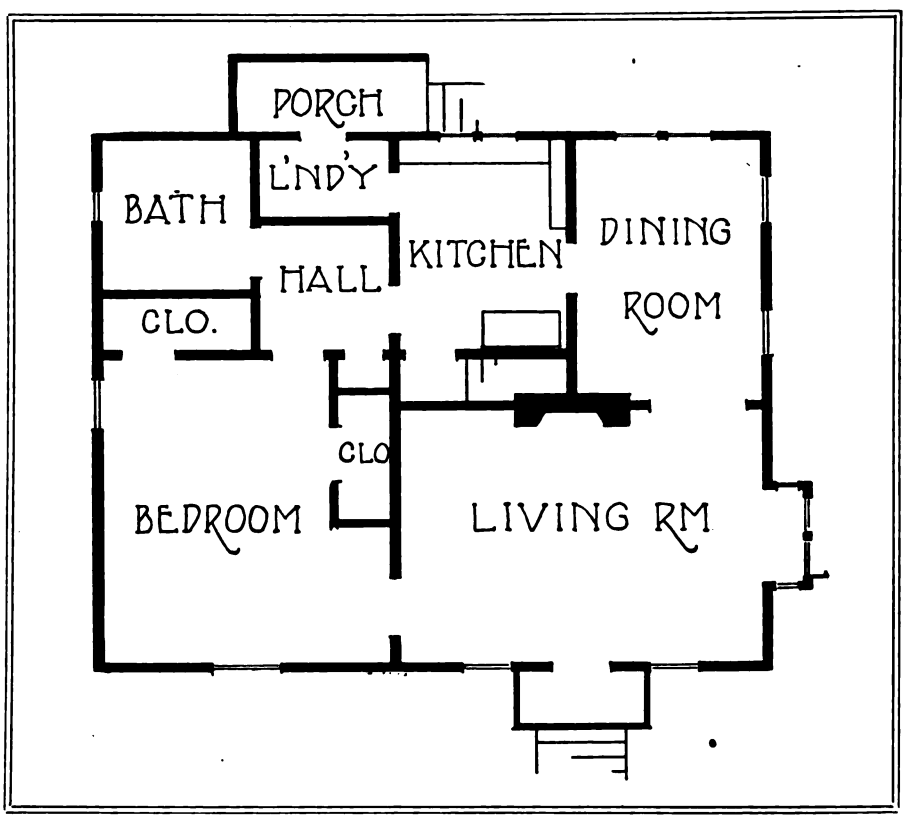
And he has done it all, "Because he likes to!"

He has made profitable work of building homes for early sale because he understands just what the average family needs. But he has built honestly because all his early training dictated that he should.

Construction of real merit that is being carried on today is, nine times out of ten, in the hands of those who understand the use of materials and equipment and their relation to satisfactory buildings.

Much depends upon the financial end of the business but never should the real importance of sturdily built structures be overlooked. Those who have come into the building field from the workers' end know this. Mr. Davidson is such a man.

The house that stays sold is the one on which the best profit is always realized. The man who bridges the gap between financing and construction and from construction to merchandising must reckon on ultimate gain rather than any temporary benefit that may be short lived.



BUILDERS' slogans work for them silently and persuasively. If one can tie up the homes he builds with a text line that will be remembered, it will mean more business later on. Mr. Davidson uses "Happy Homes for Happy People," aptly describing his efforts.

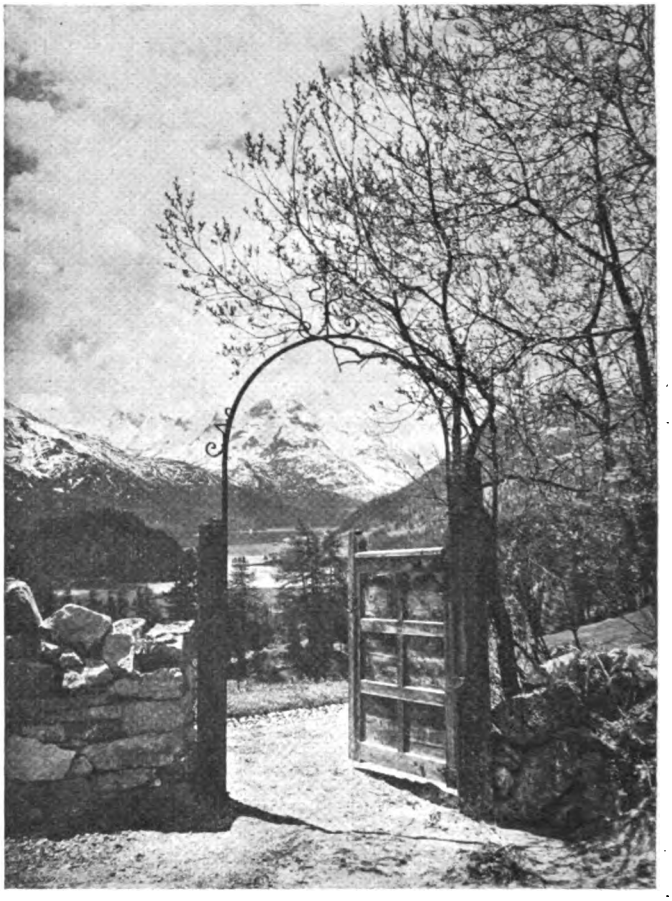
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The Correct Treatment of EXTERIORS and INTERIORS In Period Design

The SWISS CHALET

Eighth of a Series on Period Treatment

By H. A. Simons



HERE is a sturdy example of timber construction,—a Chalet garden gate, simple in design, rugged in appearance and well carried out, something that well fits in with the rugged scenery of Switzerland

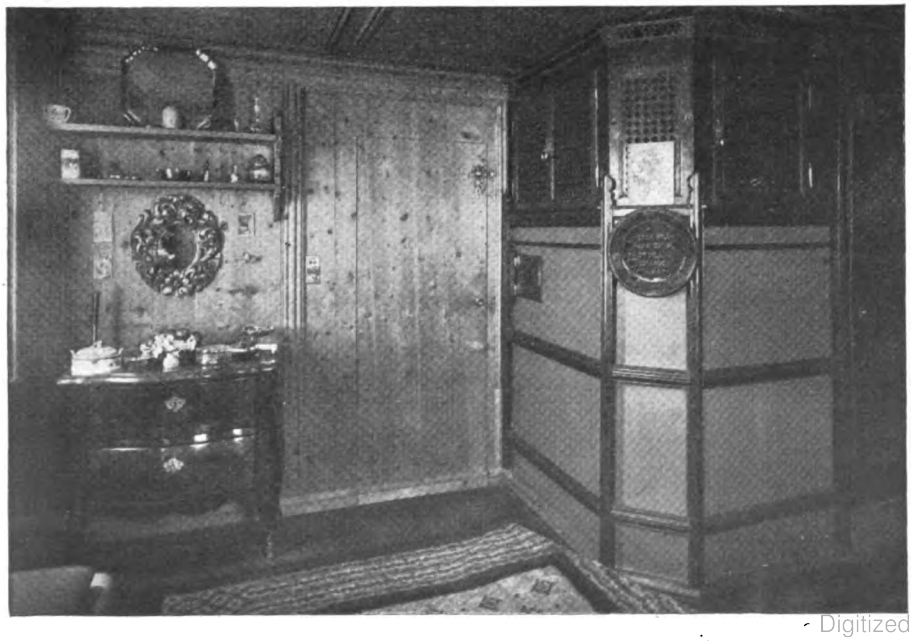
PERHAPS the Swiss chalet would take its place among the residence-styles adapted to the uses of present-day American families if it were not so generally believed that it is a type of design peculiarly adapted to a mountainous country. This belief comes from the fact that the typical chalet, as we are familiar with it, has an extremely flat roof with wide projecting eaves.

But this is only half-true. In the higher parts of Switzerland the roofs are of this type—for a reason that may not be overlooked. There, snowfall is heavy; a nearly-flat roof holds the snow, and this helps to keep the house warm, because a thick blanket of porous snow is an excellent insulator. But in many parts of the country, particularly the valleys, there is more rain than snow; and there we find roofs as steep as those on our own New England Colonial farm-houses.

So an American owner who chose to adapt the Swiss chalet to the purposes of his home could have a roof of any pitch he pleased, any degree of steepness that seemed to "fit into the landscape." But this must be remembered, too: the high-pitched gable roof no longer is universally in favor among us.

In our adaptation of the Spanish and Italian styles, we frequently build flat roof-decks above short slopes, whether the site is in hilly country or flat. So on this score there really is no reason why the Swiss style should not be used.

In the older chalets, built two centuries ago and still standing, the principle of construction is exactly that of the pioneer American log cabin. Hewn timbers are squared down, and are notched near the ends to fit into each other. They are cut to fit tightly and smoothly together,



NATURAL wood for interiors is made the most of, knotty pieces are specially prized for their beauty. To the right of the picture is one of the poreclain stoves or heaters used in Switzerland; rather different from American heating units in use today

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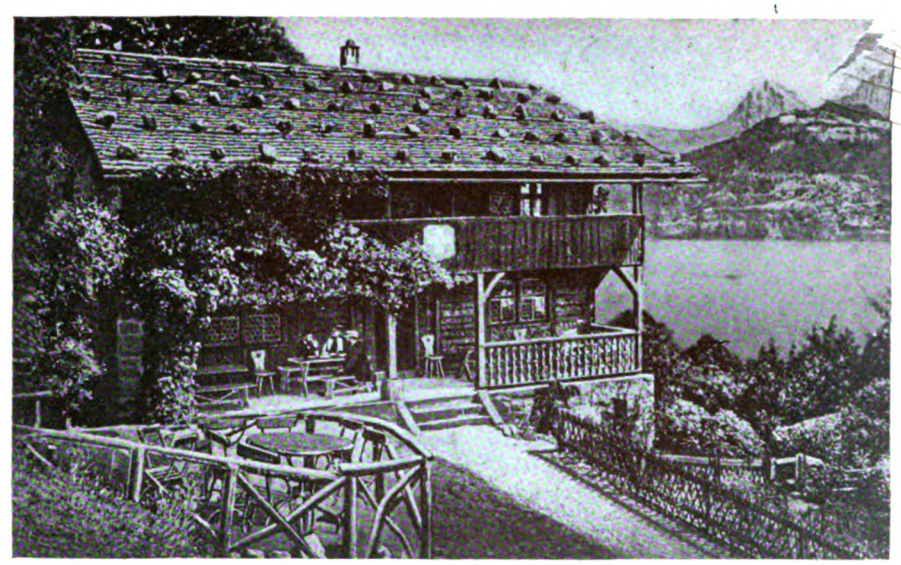
without the chinking of the cracks which was necessary in the typical log cabin. Partitions are built in the same way, the timbers for them being notched and fitted into the side-walls during the erection of the latter. Over such walls and partitions, simple trusses are erected, wooden purlins are stretched and covered with roof boards, the surface being tiles or shingles or slates.

This principle, employed by the Swiss builders centuries ago, remains the basis of chalet-construction today. But the modern chalet usually is factory-built. Every timber in it is cut to exact dimensions and marked. Then the whole thing is shipped "knocked down" and is erected on the building-site. Many chalets are fabricated this way for shipment to all parts of the world.

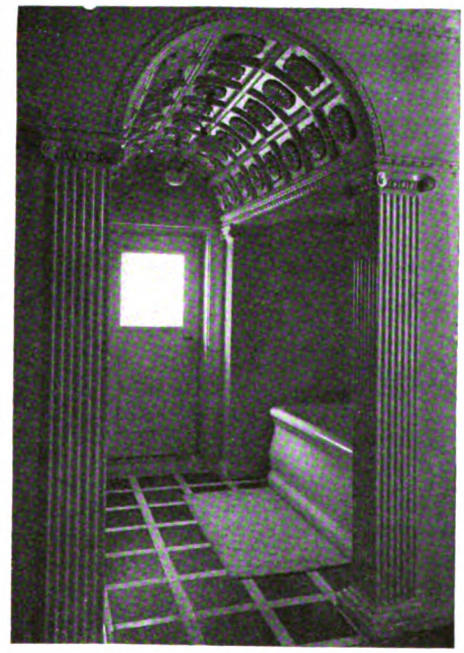
But here we learn another fact about Swiss dwellings which is not generally known. There really are three Switzerlands, one where German is spoken, another dominated by French traditions and culture, the third subject to Italian influence. It is in the German part of the country that the all-wood chalet prevails most extensively and is found at its best. In the Italian regions, especially, masonry chalets covered with stucco are found in large numbers.

And this in another fact that lends the chalet to American adaptation. Though it is, essentially, a wood style, it may be built, perfectly properly, of any type of construction.

Now let us get down to the concrete facts about chalet-construction and design, and, first of all, the plan. The chalet may be of any height, from one story to three. Perhaps



A Lakeside Inn carrying out all the traditions of Swiss Chalet craft including the stones on the roof to keep shingles down during heavy winds found in the mountains



Simplicity is not always the rule as this ornamental bathroom attests

the most general type, among the better-class dwellings, consists of a full-depth basement above ground, surmounted by two full stories plus a half-story under the roof. The basement-walls usually are of masonry.

In many cases the basement is omitted, and the house is built upon stilts. At the top of the stilts, just below the sill, are great wide flat stones; and the steps leading up to the living-quarters are such that they can be raised from the ground when not in use. The explanation of these peculiarities is that they keep out rats and field-mice—on the same principle that dwellings in jungle-countries are set on poles for protection from reptiles.

Whether the house is one or three stories high, each story is divided into two, three or four simple rectangular rooms. This characteristic of the plan is dictated by the form of construction, by which the partitions are fitted into the side-walls. Where, as in the case of a public-house or in, additional rooms are desired, simple board partitions are added to the main partitions of heavy timbers which divide each floor into halves or quarters. But the standard arrangement may be regarded as a living-room extending across the entire front of the main floor, with the rear half divided into a kitchen and a dining-room, and the upper story or half-story quartered into four bedrooms.

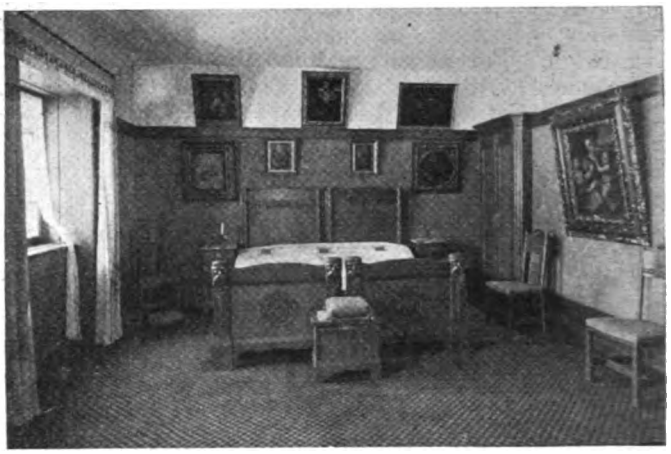


ONE of the charming Chalets at Interlaken. The foliage here had much to do to add beauty to this little gem even though it does hide some of the scroll work or "wooden lace"

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IN their interiors comfort always rules even if correct style is absent as in some place where gilt French furniture is used with a vengeance



IN some of the Swiss bedrooms heavily carved furniture is the rule as in this bedroom in one of the finer homes. Here expense is not spared

Another peculiarity of the chalet is that the entrance usually is at one of the rear corners. This gives into a little vestibule, which generally opens into the kitchen. The vestibule is a stair-well with narrow stairs leading to the upper stories.

One more fact about the plan: The American householder wishing a built-in garage may extend the wide eaves outward and downward to cover it; for many Swiss homes are built like this to accommodate a wagon-shed or a granary or a wood-shed on one side.

Roofs, as we have seen, may vary greatly in pitch. They may be of virtually any material, also. Red pan-tile, blue-grey slates and natural-colored shingles, all are employed in Switzerland. If a roll-roofing is put onto an American adaptation of the chalet style, it should be low-toned and not too variegated in color.

Chimneys play an insignificant part in the design of the Swiss dwelling. Most of these homes are heated by peculiar tile stoves, though of late years sheet-iron stoves and even the old-fashioned but cozy "base-burners" have been introduced. Hence, there may be two or three chimneys jutting above the chalet-roof, but they are little and, though they may be capped by odd-shaped hoods, they are rather inconspicuous. Certainly the chimney must not play the dominating part in the design of a chalet that it may—indeed, must have in the English cottage.



A cozy corner in one of the many hotels that abound in Switzerland, shown above, while below is a bedroom of another hotel. Here luxurious comfort has been aimed at, all materials being the most expensive

In masonry types of construction, we are likely to find windows of various sizes placed somewhat haphazardly in the walls. This is possible, because masonry materials come in small units and it is just as easy to lay them with a void in one place as in another. In the chalet, however, we are dealing with large timbers, which are much less flexible in design. So we find that doors and windows are rather small, invariably rectangular, tending to be uniform in size and orderly in arrangement.

There usually is a row of small windows in each story, running all or nearly all the way round the house. They are not always spaced exactly the same distance apart, but there is a definite balance and symmetry in their placement. They are glazed with small panes, either leaded or held by wooden muntins. The windows invariably are covered with shutters. Sometimes these are grooved and set into slots, so as to slide back. Again, the shutters are hinged at the top so that, when opened and propped up with little rods, they resemble little awnings. The shutters often are carved and pierced with openings of fantastic shape, and they supply one of the



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QUAINTLY decorated is this larger example of the Swiss Chalet. Note that the foundations are really built out in the lake, while the usual cellar space serves as a handy boat garage

few color-notes on the exterior of the chalet, being of a bright green against the rich dark brown of the oiled wood forming the main part of the elevation.

Attic-windows and the windows in the dormers of the houses that have steep enough roofs to permit of dormers are the only exceptions to the rule that Swiss windows are rectangular in shape. Doors often are beautifully carved, paneled or moulded. Door and window hardware is of remarkable beauty in Switzerland. Strap-hinges, knockers, handles and escutcheons are hammered out of iron by the village smith during the long winters, while the prospective home-owner is carving the wooden ornamentation for his home.

This carved-wood ornament is used chiefly on the balconies. No Swiss chalet but has a balcony—or three or four balconies—on some part of its exterior. It may extend all the way around one story; or there may be a balcony at each story-level on the front elevation only; or a second-story balcony protected by the extremely wide eaves of the roof and, in turn, giving protection to the windows below, may project out from the upper floor; or the eaves may extend far down on one side to cover the granary or wood-shed and on the other side to give a partial enclosure to a balcony there.

There is an infinite variety to the treatment of the balcony in the Swiss chalet; but the feature is well-nigh universal — and it should prove adaptable to American living-conditions, in the form of a sleeping-porch or a sun-room.

These balconies generally are covered with wood-work so fine as to be called "wooden lace." Many times it consists of long carved boards applied horizontally. Again, it consists of an elaborately carved series of balusters. Still again, the railing is built of flat boards pierced by scroll-work done with a saw. The unlimited ingenuity of the Swiss wood-carvers spends itself in the elaboration of this beautiful work, and it is applied prodigally to the balconies, to the bargeboards on the eaves, and to the corbels, brackets and struts that support the balconies.

So now we have a completed picture of the chalet exterior: rather low it is, though not necessarily squat, with the horizontal line predominating over the vertical, this movement emphasized by the broad eaves and the balconies, low-toned in color except for the bright green shutters and the flower-pots that fill every window, extremely simple construction given a feeling of rich but unpretentious beauty by the carver's handicraft.

The Swiss are not a rich people. So we must not look for any elaborate interior decoration within their little homes. Here, again, the only means they have of adding beauty to their surroundings is their craft skill; the richness of the interior wood-work even exceeds that of the exterior.

The floors are of hardwood—in the cases of the well-to-do, finely laid parquetry. These are covered with rather ordinary rugs.

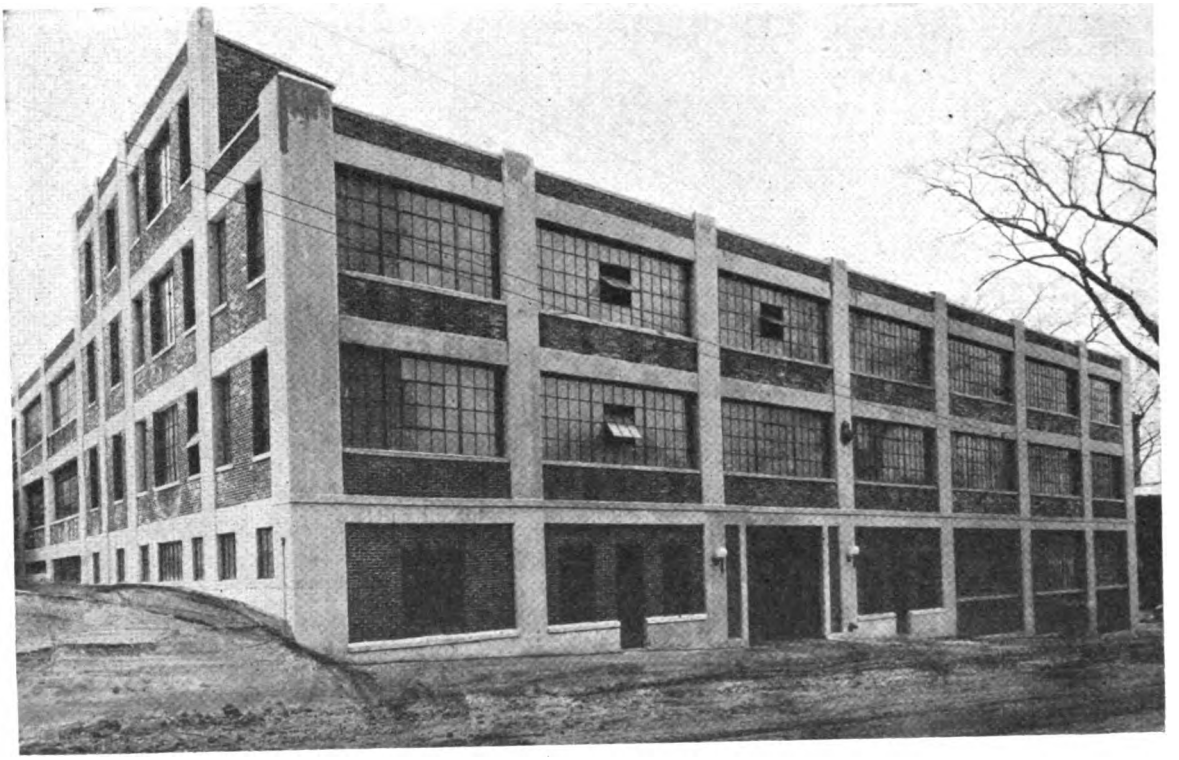
Walls are paneled with oiled or dark-stained wood. The panels consist of rather wide boards, chamfered or beaded along the sides and applied vertically.

Only in the ceilings is color introduced extensively. The roof rafters or floor joists are left exposed, and these sometimes are carved, but more often are just smooth and chamfered and painted with simple but attractive designs in strong colors. Against this simple background are placed pieces of furniture wrought by hand.



A PERFECT setting for afternoon tea amidst the mountain tops. For these various pictures we are indebted to the courtesy of Hotel Management published by Ahrens Publishing Co., N. Y. and to Cosmopolitan Swiss Tours, Inc., New York

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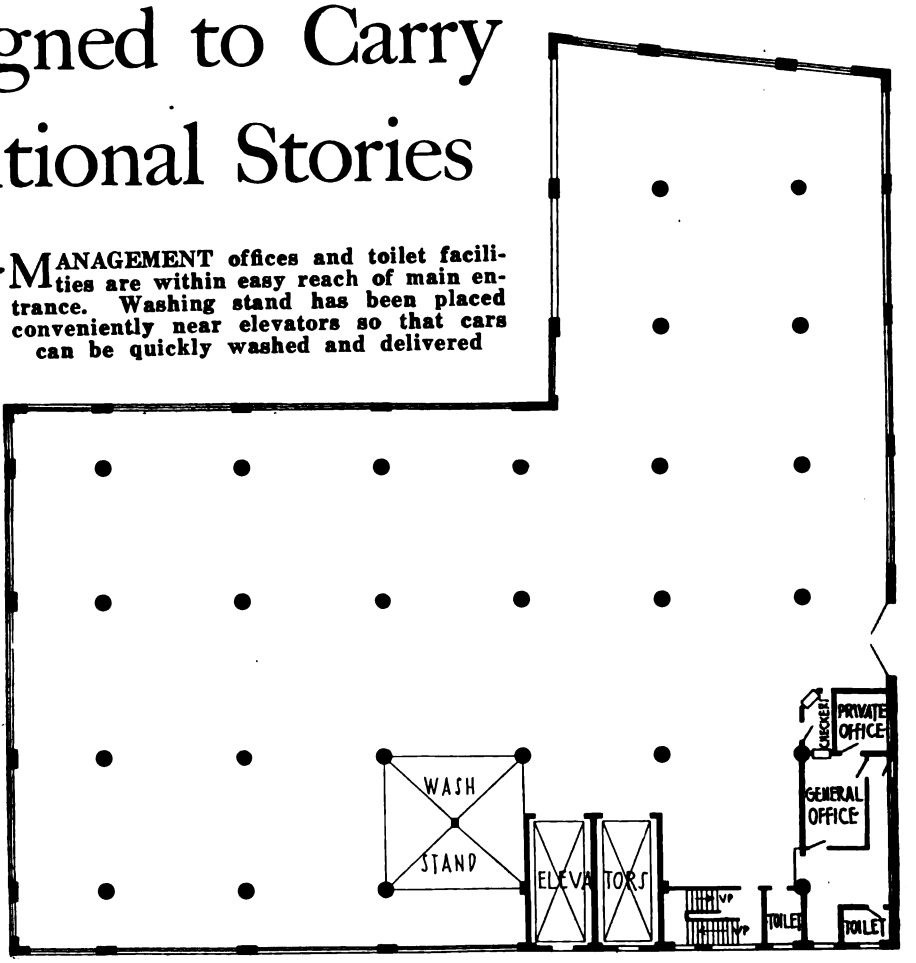
Modern 300-Car Garage That is Designed to Carry Three Additional Stories

PROPERTY values in the commercial sections of our cities permit only the construction of buildings that provide the maximum space that the district will support. In garage buildings, the site is very often on a rapidly growing street but one that has not yet reached its business peak.

A practical means of governing these factors was demonstrated in the case of the Congress Square Garage at Portland, Maine. The owner wished a six-story, 600-car building. The location, it seemed, would provide business to just half that extent. The result was that Webster & Libby, the architects, designed a 3-story structure with provisions for three additional floors when the need arose. Each structural member has been designed with this in mind. Perspective shows the completed building.

Five buildings were removed at the corner of Forest and Cumber-

MANAGEMENT offices and toilet facilities are within easy reach of main entrance. Washing stand has been placed conveniently near elevators so that cars can be quickly washed and delivered



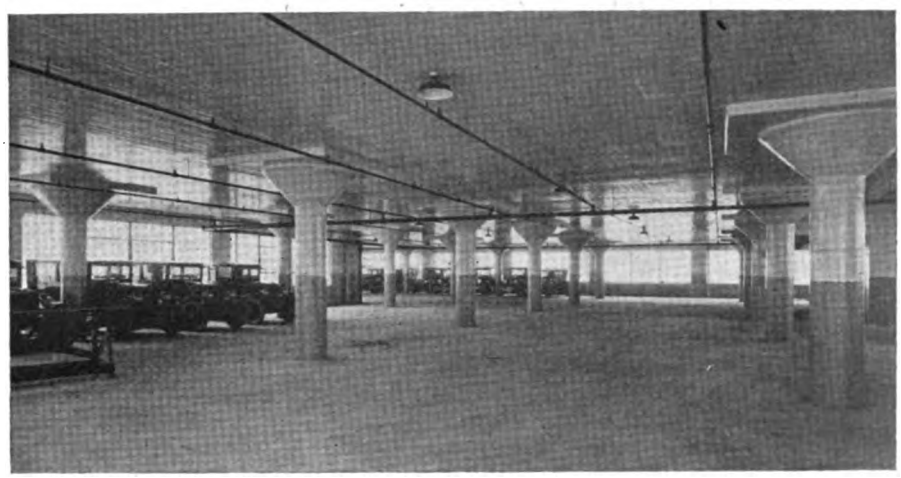
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Congress Square Garage

Portland, Maine

Webster and Libby
Architects

N. E. Redlon Company
Builders



Reinforced concrete columns support each succeeding columns. Note how unusually well illuminated in this interior. The entire space between exterior columns filled with steel sash. Automobile sprinkler equipment at ceiling

land Avenues to make way for the Congress Square. A portion of the site had an outcrop of ledge that needed to be removed. In another portion, footings were taken to a depth of about twenty-five feet below street grade to reach the ledge. The tremendous weight of the completed garage will rest entirely on this ledge.

Construction is reinforced concrete columns, pilasters, floors and roof. Reinforced concrete wall beams have been placed at the floor levels with brick curtain walls between beams and windows. Steel sash fills the entire space between exterior columns to provide maximum illumination within.

Stairs are constructed of reinforced concrete enclosed in a fire tower with fire doors at each floor.

Two automobile elevators of the most modern type have been installed, these operating at passenger speed. The need for expeditious service has resulted in this installation with the claim that automobiles can be handled more quickly by this method than by any other means.

Elevators will be enclosed in standard towers with fire doors at every floor. Peele doors are being used, so equipped that elevator can not be started until doors are closed. They can be operated from the elevator side only making it impossible to leave them open save when operator is at the floor.

When plans for three additional stories have been completed an automatic passenger elevator will be installed for the use of patrons.

THE plan shows mostly car storage space. There is little need for other provisions save management offices and toilet facilities. These, together with a checker's stand are within a few feet of the entrance.

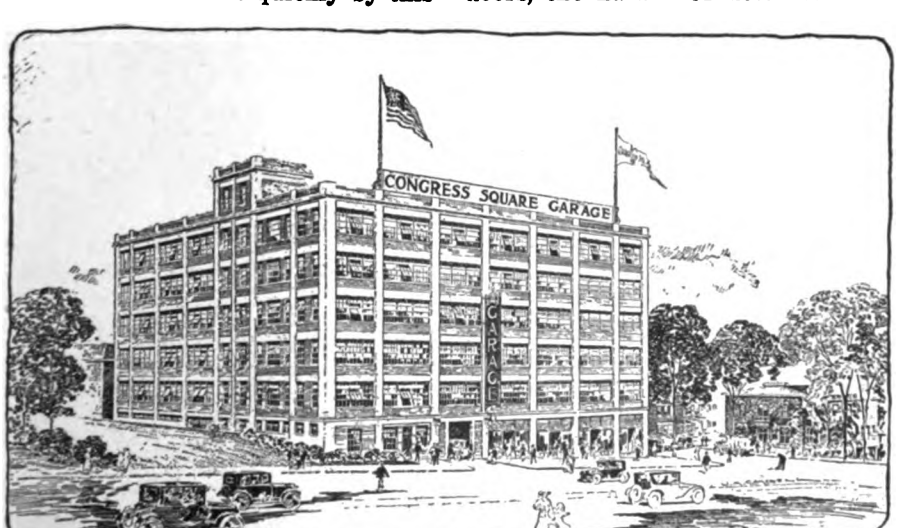
In summing up this up-to-date structure it may be said that it is nearly fire-resistant as it is possible to construct. With every floor entirely cut off from every other floor by means of masonry walls and fire doors, the hazard of destruction or

As a further precaution an automobile sprinkler system has been installed. All electric wiring is concealed in concrete floors and walls.

This is a garage that when completed will represent an expenditure of half a million dollars. Six hundred cars will be accommodated and it is easily seen to be profitable investment. Total floor space based on six floor capacity runs approximately 100,000 sq. ft. The cost to complete six-story building is in the neighborhood of $5 a sq. ft.—for fire-resistant construction. Owner and manager is Congress Square Hotel Co.

The need for adequate garage space in our larger cities has never been more evident than it is today. Police regulations pertaining to street parking are becoming more rigid and the motorist is gradually being crowded to the outskirts of a city if he wishes to park his car. Or as an alternative, he must seek a convenient garage. Consequently the public garage today divides its clientele between those who use its space for storage and an equally large number who enjoy parking facilities only.

The result has been the type of garage structure such as this Congress Square. It must be centrally located and it must provide every available means for moving cars in and out without delay. Such work is profitable for builder as well as owner. There are many plots not adapted for store buildings but ideal for a 100-, 200-, or 300-car garage.



THE Congress Square Garage will look like this when additional three stories have been added. Capacity then will be 600-cars. A pent house for elevator power will be constructed identical with that used on three-story structure as illustrated

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How Many Builders Are Using the Torch in Building Work



The oxy-acetylene torch will cut this I-beam more quickly and easily than a hacksaw

By D. C. McGiehan, C. E.

THERE are to-day almost innumerable possibilities for oxy-acetylene application in the general construction and building field. The steel plant makes good use of this process, as well as the fabricating shop, and the man on the construction job will find many uses for it both in construction and demolishing of buildings.

The use of oxy-welding process by the contractor for maintaining his equipment and fabricating special equipment is noteworthy. Such applications show that a weld makes a strong joint that will stand a lot of rather rough usage. Also, these applications include instances of actual structural welding.

Take the case of a huge steam-shovel. In the course of operations the boom was overstrained and several cracks appeared near the base, extending outward from several rivet holes. This boom, of course, required immediate repair to keep the job working, so the contractor made use of the oxy-acetylene process to help him out of the trouble.

The rivets under which the cracks had appeared were removed by clipping the heads with a cutting blowpipe, then backing them out. Next, the cracks were veed nearly to the bottom of the plate, using the same tool, and then they were welded. It took only an hour or two to do this job, because the contractor had access to an oxy-acetylene outfit. Had it been necessary to replace the plate or make a splice by the old methods, the shovel would have been out of service many hours longer, waiting for new materials and special tools.

All types of excavating and hoisting machines need repairs at some time or another—and speed is often the essence of a contract. And such repairs (easily made by oxy-welding) are not limited to rolled or forged steel parts—breaks in cast-iron, cast-steel and alloy steels are readily mended as well.



The blowpipe finds its application in remodelling and demolition work. Above it is shown cutting a cast iron column for removal

For instance, a cast-iron crane-frame broke late one Saturday afternoon. The oxy-acetylene operator was on the job early next morning, and after removing a gear and its shaft, in order to get at it, veed out the crack with his cutting blowpipe, built a temporary preheating furnace around the casting drill (still in place), preheated it, welded the break, and let the furnace stand until the casting was cool. The crane was in operation again next day.

Derricks also come in for oxy-acetylene attention. In one, the gudgeon was badly worn near the base. The worn section was built up slightly above normal by adding metal from a welding rod, and when ground down a bit made the derrick



An oxy-acetylene unit is handy equipment to have on the job. Here is seen one application on steel work, showing how holes may be marked out and almost instantly made with this modern tool

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ready for service. This repair cost only five dollars, but saved a new fitting and avoided much delay.

Most every contractor is familiar with the use of the oxy-acetylene flame in steel demolition work, but some may not know that it will cut away old cast-iron construction as well. It often occurs that the quickest, easiest and cheapest way of removing cast-iron columns is to cut them down with the blow-pipe.

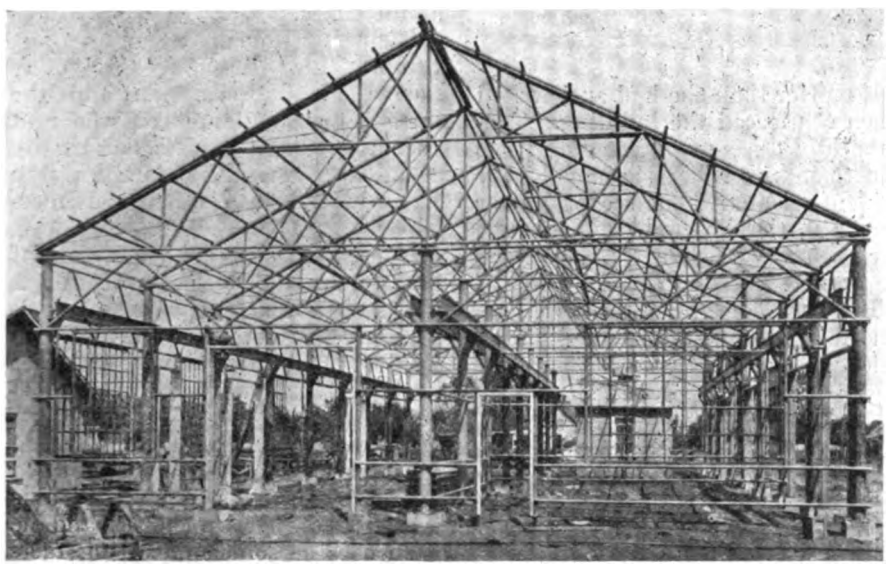
IN alterations on old construction, rusted members are often found. The welding blowpipe offers an easy means of cleaning them. This is because iron oxide or rust has a rate of expansion differing from that of steel. Hence, the oxy-acetylene flame plays over the surface (which can be scraped slightly at the same time), scales off the rust and leaves clean metal.

Rusted and pitted conditions are also found during careful inspections of steel structures which have been in use for some time. This is particularly true of floor beams and stringers of bridges with wood flooring, which holds moisture and at the same time makes painting of the sub-structure difficult. Of course, if the members are badly thinned down, there is a job for the cutting blowpipe in removing them for replacement. If, on the other hand, they are only pitted, spot rust is easily removed with the welding blowpipe and pits filled in with metal from the welding rod.

However, the process is by no means limited to work on old steel. New material shipped to the job may be slightly off dimension, due to an error or oversight in drafting room or fabricating shop. If a beam or column is too long, the cutting blow pipe readily copes it to fit.

A job that brings out the general utility of the oxy-acetylene process to the structural erector was done some time ago when the engineering department of a large plant put up some new buildings, using second-hand steel for the work.

The frames of these buildings, except trusses and heavy columns, were fabricated on the job largely with the aid of oxy-acetylene blowpipes. Much fitting was necessary, and this was done with the cutting blowpipe. In securing girders to columns, the girder was swung and blocked in its proper position, butted against the column. Bearing and clip angles were then clamped in place, and all holes for the rivets necessary to the connection were cut with the blowpipe. Where ends of floor beams carrying walkways across adjacent bays butted into the web of a girder, they were connected thereto by riveting through clip angles, the rivet holes being cut at time of erection.



Portable warehouse framing fabricated from second-hand pipe. All joints are welded except few necessary to secure portability

WHERE floor beams were carried on girders, they were laid in place and holes cut in their webs at the butting ends, permitting them to be joined with a splice plate that was also cut and drilled with the oxy-acetylene flame. They were then secured to the girder by bolts running through their bottom flanges and the top flanges of the girder. Posts and beams were cut to fit, erected in place, and connections made on the spot. This removed the need for detailed drawings for every member—the only diagram being necessary was the original layout carrying dimensions and locations of main columns, spacing and size of various floor beams and location of machinery.

The oxy-acetylene unit is very handy equipment on a concrete job. Reinforcing steel can be cut to the correct length after being put in place, or, if necessary, two rods may be joined by welding. When lapping reinforcement, it is common practice to wire the rods together. The welded joint would make a much more secure job and could be done in an equal length of time.

It will now be interesting to consider briefly the foothold already gained by the welding blowpipe in performing major structural work.

NUMEROUS separator towers, small tank supports, and other such equipment common to oil fields and refinery, have been successfully fabricated without a rivet or bolt. The idea has been carried over into the construction of buildings. All of these structures, or rather the framing of them, which have come to my attention, are composed of pipe joined by oxy-acetylene welding. Throughout all columns, trusses, braces and purlins, not a rivet or bolt is in evidence, except possibly where it was desirable to make a portable building, when the welded trusses were secured to the columns by bolts.

Both theoretical and practical considerations establish the value of a structural frame built up by welding lengths of pipe together. Surely, pipe is just as good as any other shape in tension, while both experience and mathematics tell us the circular section makes the best column or compression member.

The only reason we do not use round members is the impracticability of making riveted joints in them. This objection is now removed by the oxy-acetylene welded joint. Its successful use in joining long pipe lines subject to great expansion and contraction stresses, its successful use in fabricating large gas holders, and its performance between the grips of a tension machine prove the worth of this connection. These photos are by courtesy of Linde Air Products Co., New York.

Oxy-Acetylene Torches Have Become Part of Modern Builder's Equipment

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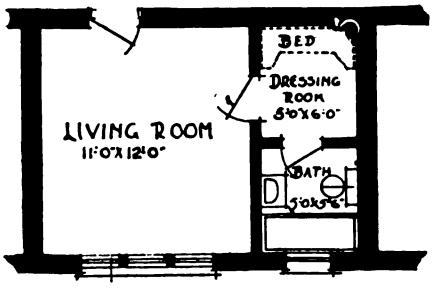
Conveniences for the Modern Home

BUILT-IN BEDS

THE third and final article in a series on the use of this modern, space saving piece of household equipment

IN helping to secure the maximum efficiency of floor space in our modern homes, the built-in bed plays a most important part. In the various floor plans shown in this article, different arrangements for space saving are illustrated.

As a great majority of the buildings erected today are small resi-



THE use of concealed beds in apartment hotels continues to increase, as an arrangement similar to the above uses practically no more room than old fashioned method and still gives the use of a living room. A feature like this would be appreciated by traveling salesmen who have the added advantage of a sample room supplied to them at no extra cost. Bath opens on dressing room

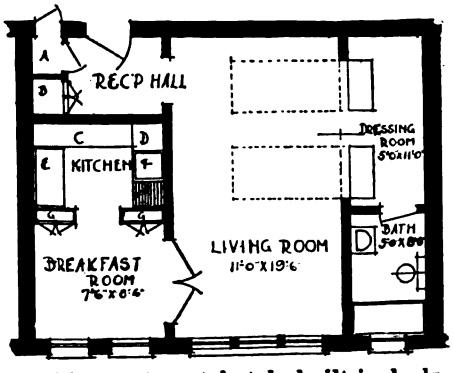
dences, each one is a prospect for a built-in bed. An extra bed is a convenience in practically every household and where rooms can conveniently be made to serve a dual purpose, the built-in bed is an outstanding economy as it saves the erection of another bedroom which would be required.

In commercial buildings, factories, etc, such a bed may be conveniently used in the ladies rest room. Here it occupies no space until an emergency arises when it can be easily brought into use. The same is true of any first aid room. One or more beds can easily be brought into use when necessary while at other times the space is available for other purposes.

An additional use for beds of this type is in existing structures, remodeling work, etc. There is many an old fashioned building hard to rent that can be converted into small apartments by the use of built-in beds and other built-in features. A case in point follows:

A woman who leased a large apartment building in Chicago for sub-renting found that renting 8-room apartments was a more difficult matter than she had anticipated when she leased the building. Tenants didn't seem to want such large apartments. This became very evident as apartment seekers, after viewing the vacant apartments, turned away with a "No, I guess we don't care for so many rooms."

Her experience with these visitors, who failed to put their names on the "dotted line," convinced her that



FOR apartment hotels built-in beds offer an outstanding advantage. They enable the living room to do double duty as shown in the above complete four room apartment which is really nothing more than a room and alcove. A, is a service door; B, wardrobe; C, cupboard; D, refrigerator; E, range; F, sink; G, china closet

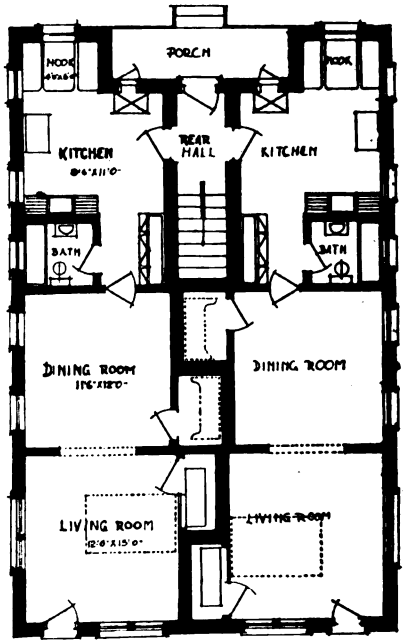
if she had smaller apartments to rent, at reasonable prices, in the high class neighborhood in which her apartment building is situated, she would get as many tenants of the class she desired as she could accommodate.

The question then was what to do about it. She was tied up by a lease, with an apartment building containing six 8-room apartments. The building was ten years old and her predecessor had experienced the same difficulty in sub-leasing the apartments. This does not mean that she was unable to rent most of the apartments, but if one apartment, renting at $225 a month—which computed on an annual basis is 6% on an investment of $45,000—remains vacant in a six apartment building, it cuts considerably into the profits. And she had no intentions of just making a bare living out of her business, with the danger of actual loss menacing her at all times.

Thousands of apartment owners through the United States today face the same situation and the same is true of landlords who rent rooms in large houses, originally occupied by wealthy families who have moved into other neighborhoods.

There was only one solution of this woman's problem, and that was to remodel the six 8-room apartments into smaller ones, which would rent for less money and meet the requirements of prospective tenants.

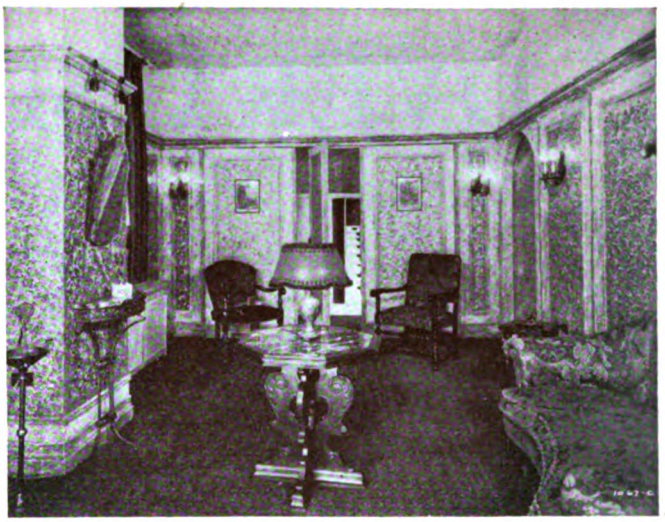
It was about this time that a representative of a built-in bed manufacturer called upon her. She told him of her difficulties and he gave her the solution. Citing facts and figures, he showed her how easily the building could be remodeled, and how by the use of such beds,



HERE we have a twin bungalow plan in which the closet beds in living and dining room give this three room plan a five room efficiency

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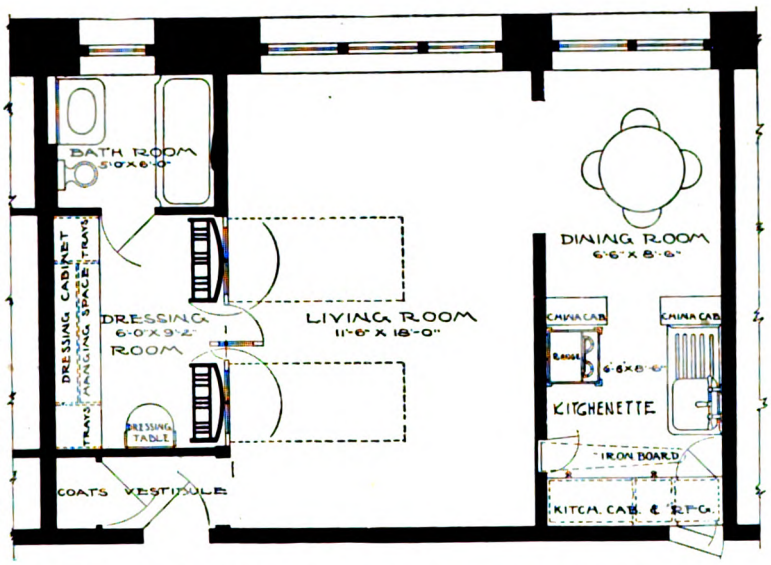


each of the many new small apartments could be made into pleasant living quarters, with ample space to provide a real home for the occupants.

These beds, he explained, when not in use, could easily be put up, out of the way, entirely concealed in closets, recesses in the wall, or by canopy draperies in harmony with the other decorations and the color scheme of the apartment.

He submitted floor plans which his company's Service Department had drawn up, showing her how the six large apartments could be remodelled into 36 one-room, two-room and three-room apartments, from which the income would be almost three times as great as that she would receive from six 8-room apartments if all were rented.

The owner followed the salesman's advice and now, a year later, his predictions have been fulfilled. There are 36 small apartments in the building and they are fully rented, while there is also a waiting list of prospective tenants. The apartments rent at $60, $80, and $125, according to their size and location, and this woman has, in fact, almost tripled her income. The apartments were rented furnished, but little was needed as so much was built in.



HERE is an arrangement of a model layout of a five room efficiency apartment compressed in a two room modern apartment. The pictures presented here show photographs of a carried out in this fashion. Comfort, elegance, and convenience are made possible by the use of built-in beds

It was by the installation of these beds that the success of her venture was made possible. They were easy to handle so that a child could manipulate them, save so much floor space, that, in effect, they give to each apartment one or two extra rooms, as each room furnished with a built-in bed served two purposes—that of living room by day and a bedroom by night. If the regular type set-up bed had been installed, the sleeping room could only have been used for sleeping and dressing purposes; there would have been no place for entertaining guests and the room could not have been used as a living room.





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ADVERTISING *By* National Authorities *to* and *by* Builders

Competition *and* Advertising

By R. G. Timmerman

of

Charles Daniel Frey

Chicago, Illinois

"HELLO Bill! How is business?" I was very glad to see my old friend again and shook his hand cordially. Between trains, I had dropped into his little office and I could see from the back of the letters painted on the window, "W. A. Smith, Contractor," that Bill was still following his calling.

"How's business?" said Bill. "Only so-so. There is too much competition in this town."

"Who are your competitors?" I asked, and I had a reason for this simple question. And Bill turned to the classified section of the telephone directory and under the heading of "Building Contractors" pointed out a long list of names.

"That's where you are wrong, Bill. You number competitors the same as nine out of ten contractors," I said, warming up to the thought that was in my mind. "Come to the window. See that string of stores all along State Street? The radio shop? The automobile dealers? The clothing stores? The theatres? They are your real competitors, Bill."

I disregarded Bill's incredulous glance and went on. "Every man in this town has a certain definite income. Each year he spends or invests, or saves it all with very little of the latter. If the automobile dealer convinces him he should have a car, he has to take part of his income that you might have gotten for a home.

"Let me get off the subject for a minute to cite an example. Baked beans and building may be a long way apart but the story has a moral. The baked bean canners weren't doing very much business. There were hundreds of them fighting among themselves for business and each of them only got a small share of it. One wise canner dug down and got at the root of the trouble. He made a nation-wide investigation which uncovered a startling fact.

"Only 18% of the housewives were buying canned baked beans. The other 82% were either baking their own beans or had some notion that beans were not digestible and had black-listed them as far as the family menu was concerned. The canner I am talking about forgot his hundreds of competitors. He left them to continue fighting among themselves for the 18% of the potential business.

HE went after the lion's share of business, the other 82%. He recognized that his two biggest competitors were the housewife who baked her own beans and the housewife who thought they were not digestible. Did he profit from his campaign? Why, Bill, he left the rest so far behind that they couldn't see his dust. A lot of them are still fighting among themselves for that 18% of the business.

"The moral, Bill, is plain. Only a few people in this town are building. Get all of this business that you can of course. But to make big strides, you must go after your big competitors—not the other contractors in town but the merchants.

"You must advertise. Picture to the public the pleasure and economy of building their own home. Explain how litle money is required and how easily its building can be financed. Tell them to come in and talk over the matter with you. Without obligation, offer to show them plans, explain financing schemes and submit estimates. Make them want to invest their money in a home more than spending it for any other thing on earth. Do that, Bill, and you will never again worry about having too many competitors in the contracting business.

"Just one thing more Bill, then I will have to sprint for my train. Build with advertised materials whenever possible. Manufacturers of building materials and equipment are spending millions for advertising that you might just as well make use of. For instance when you choose a heating system for a house, people know about the Capitol Boiler and United States Radiators. When you install them, you don't have to explain why they are good.

"Everyone has seen them advertised in beautiful color pages in the national magazines. You add to your own reputation the prestige the United States Radiator Corporation has spent many dollars to build.

"Gotta hurry, Bill." As I shook hands goodbye with him, I could tell from the glint in his eyes and the set of his jaw that Bill was on the road toward bigger and better business.

If I Were a Builder

By Louis W. Bonsib, Advertising Counsel

Ft. Wayne, Indiana

IN many lines of business the power of advertising has been realized and taken advantage of to a considerable extent. There are other lines, however, in which advertising so far has played but a small part. Like the gold mines of Alaska, they lie untouched, unnoticed, but ready for the rush which will carry many men to fortune.

The history of successful men reveals the fact that regardless of the line of business, the man who first hits upon some sound plan in his own line of business which is different than that which others are using, cashes in at a tremendous rate

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until his competitors wake up and begin to do the same thing.

So it is with advertising. In the builder's field the surface has hardly been scratched. The far-seeing builder who will first realize the power of advertising and use it will have a powerful weapon in his hands and can wield it on a defenseless competition.

The above statement will not go unchallenged, for the average contractor will tell you that he does advertise. We must first define advertising. Putting a card in a program of the policemen's ball or taking a page in the high school annual is not advertising—it is charity.

Putting out calendars showing a pretty girl is publicity—not advertising.

Advertising carries a definite message to a definite group of prospects and in order to do that successfully it must have a definite plan.

If I were a Building Contractor I would first take a look at my total yearly business, then I would look at my capital and production capacity and determine how much business I could handle. Then I would look at the possibilities in the town I lived in and determine how much building could be done if I went after it aggressively—what percentage of it I could expect to get. With those facts in mind I would decide what that much business was worth to me and I would make an appropriation of that amount.

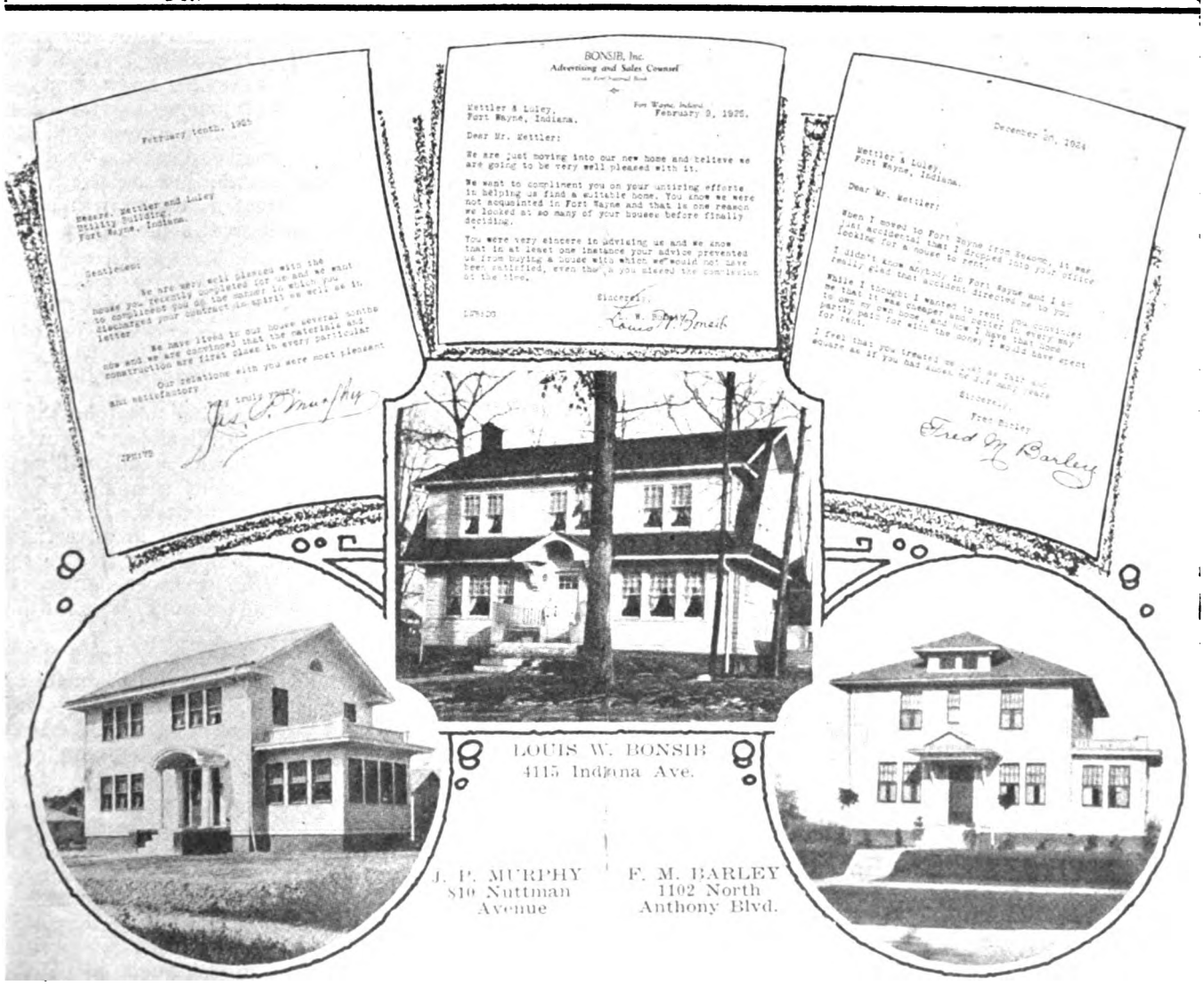
I would divide that up into monthly sums, spending more in those months in which contracts are apt to be let than in those months in which there is little activity, yet I would advertise the year around, steadily and consistently.

I would not merely put my name and business in the paper but I would plan a definite campaign consisting of some newspaper advertising but above all, frequent letters, post cards, blotters, etc., to good prospects.

I would not content myself with merely trying to pick up jobs that already existed but I would try to look into the future and see where building was needed and then go sell that building.

In my advertising I would carry pictures of the homes or buildings I had recently completed, inviting the public to inspect them carefully to see that workmanship and quality of materials was absolutely okeh. I

Two Pages of Testimonials from a Successful Builder's Advertising Booklet



HOMES OF THREE SATISFIED CUSTOMERS

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would try to build up a gradual conviction in the minds of the people that if they wanted a house built right, if they wanted contracts handled in an honest and sincere way, if they wanted to get real value for every dollar they spent, if they wanted to build homes of unusual attractiveness and convenience, that they should always see me.

By that I do not mean that such a statement should be carried in the ads but merely a continual telling about the dependable and reliable achievements of my firm would build that feeling in people's minds.

If I were a very active Big Builder I would carry once each week in each good paper in my town a fairly large ad, say two column eight or ten inches, showing a picture of my most recent building at the top and listing other important buildings I had constructed and inviting the public to ask me for suggestions and estimates without obligation. I would have a coupon on the bottom of the ad making it handy for the prospect to answer.

Then I would get out a booklet written in simple language that would give the prospect a lot of information to help him select a location, guard against defects in title or bad location, help him understand fully the methods of financing a



THE cover of a Fort Wayne Builder's advertising booklet. The appeal is home buyer, written in simple, intelligible language. "Where Shall We Build or Buy Our Home?" shows what can be done in builder advertising designed to win confidence

home and try to build in him confidence that he could come to me and depend upon what I told him. (Such a booklet prepared by the writer for a Ft. Wayne firm is illustrated.)

Not only would I try to get the prospect to write for the booklet by newspaper coupons but I would select a definite list of prospects who earned good money and ought to own their own homes and I would mail them this booklet with a letter suggesting that probably they have a good friend who earns a good salary but who rents a house and who ought to be building his own home. That letter would drop the suggestion and would probably get more direct returns than if I specifically told my prospect that he was the man I was talking about.

I would follow up this list of prospects with other letters, occasionally a photograph of an unusual home, frequently a little blotter or folder of some sort, all of course depending upon the amount of money my volume of business would permit me to spend.

With such a definite plan laid out I would go forth with confidence. I would quit wishing and start expecting. I would know that the growth of my business, provided my financing policies were sound and my workmanship good, would be just as certain, just as steady and just as great as the growth of the sturdy oak tree in the forest.

A Definite Plan *in* Advertising

By C. B. Howry, Jr.
Vice-President of Hazard Advertising Corp. *New York City*

A NEGRO woman was energetically expressing her views on the futile business activities of her spouse. "Dat nigger," she averred, "am always goin' somewhere—but never 'rives."

Similarly, advertising entered upon without a definite plan of operation is more than apt to wander leaderless in the desert of poor results.

To secure maximum value from your advertising, it is essential that you conduct it according to business rules. As is the case with the other divisions of your business, you must have some objective in sight. It is common sense to do so, and I know of no other department of business where the application of good hard horse sense pays greater dividends than in advertising.

Remember, too, that advertising should be coordinated with the other activities of a business. To be fully successful advertising must work in harness, pulling its share of the load toward the common destination. Naturally this is impossible of accomplishment unless you view your advertising as a whole, laying it out in orderly, workmanlike fashion.

The adoption of an advertising plan performs another worthwhile service. It helps to eliminate waste of advertising dollars. For instance, instead of contracting for space on the impulse of the moment, and often in response to the glowing picture sometimes sketched by an overenthusiastic salesman, a pre-arranged plan enables you to give every angle of your advertising the calm, thoughtful consideration which any important expenditure is entitled to. The plan method represents your best judgment as to media to employ, as well as the amount of space therein which should bring the greatest returns for your money. Here you might stick a pin in the fact that too small space may be as wasteful as too large a unit.

But in adopting a definite plan do not lose sight of the fact that few, if any, advertising schedules should be considered inflexible. The wisest general is he who stands willing to alter his plan of campaign should unforeseen events make it desirable to do so. Likewise in advertising, which is a campaign waged to capture the wary prospect, be ready to embrace opportunity if conditions alter.

Merely as an example of this, a new publication may be launched in your city. Perhaps you have long since prepared a plan, and have it in operation. Yet the new paper may reach a most desirable class of prospective buyers. If you are satisfied of the worth—to you—of the publication do not hesitate to add it to your list, eliminating, if need be, a less desirable one.

There are fine points to making advertising investments, however. One of them is brought to light by the theoretical instance quoted above. It is this: Do not take on a publication lightly, nor be ready to discard it without valid reasons. If

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your advertisements, say, have been appearing in a paper for several years you should consider that you have an investment in that publication of the entire amount of money spent with them.

The owners of the publication have built up the interest and good will of their subscribers over a long period; your advertisements have had the same object in view. So the good will accruing to your advertising over that period is written off when you discontinue in that publication.

Now, in its final analysis, the purpose of advertising is to increase sales. The best method of doing that often causes the plan department of the agency with which I am connected to burn the midnight Mazda. Though we deal largely with the problems of manufacturers there are certain phases of this plan work that are applicable to your problems.

Each business has its distinguishing characteristics. Conditions vary as to traditions, previous policy, methods of organization and character of personnel. The advertising cloth must be cut to fit the garment so it is impossible to lay down hard and fast rules. It may be safely said, however, that no manufacturer should enter upon an advertising campaign without determining through preliminary investigation the extent of his present market, the possibilities of markets in which he does not now sell but which may offer a profitable field, the buying habits of prospects, the forms of media which influence his markets, i. e., newspapers, magazines, billboards, direct mail, etc., and last but not least a complete study of the methods of his competitors. The character of the "copy," or "text," of the advertisements is fixed by the aforementioned factors.

CHARACTER of the industry advertised, in conjunction with investigation, will determine into which class the advertising falls. Happily, the builder and architect do not have to puzzle over the "class" of their advertising. You are selling your brains and experience—a technical product which is purveyed directly to the consumer.

From the procedure of the manufacturer you may find the basis of such questions as the following: Who are my logical prospects? What publications do they read? Are they influenced by local prejudices, if I am endeavoring to sell them as a non-resident? Do I excel in some particular form of construction? What is the trend in types of buildings, and am I prepared to offer good service on new forms of construction? Have I capitalized sufficiently on my previous work? Is the morale of my force good, and how can I make my advertising improve it? Wherein are my competitors strong, and weak? Can I play up my organization's superiority in a strictly ethical way? What forms of advertising do my competitors use?

You have the advantage over the manufacturer in knowing exactly how your prospect buys. Eliminating competitive bidding, in which the builder must often enter, the owner must deal directly with you or your immediate representative. You, or the latter, closes the sale. The advertising then should be directed toward bringing the prospect into your office, or impressing him so favorably that sales-resistance is lessened if you approach him. Plan your advertising accordingly. Do not insert a mere "business card," but run a series of simply worded, straightforward facts about your operations.

TO amplify, the purpose of advertising is to implant ideas in the minds of your prospects. Though you are offering your ability, which may be termed as intangible, there are certain advantages which you can offer and other firms may not. Business reputation, reliability, past accomplishment, finishing work on time, the giving of full value—these are factors that tip the scale in your favor.

The most successful advertising is that which, in addition to promoting present business, lays the foundation for future sales. By driving home constantly the features in which you excel, or those you feel your public is not sufficiently informed upon, you interest the man who is a future builder as well as the one ready today for blue prints.

JUDICIOUS advertising benefits the builder! That is the belief of these advertising experts. Competition is not to be feared by the man who has the public's attention and gains its confidence.

In planning your advertising copy, do not hesitate to iterate and reiterate. Change the wording but not the thoughts. It may seemingly approach the tiresome and unnecessary, but remember that your audience does not read every one of your advertisements, and in fact may never read one until it requires the services of an architect and builder.

PERHAPS you have long been in business. Then, dotted around the city are many buildings designed or erected by you. Then your plan may be built around the "testimonial" idea. Illustrations of these structures, with appropriate text, may be made the basis of an interesting campaign. Or you may use these jobs to give point to the features of your service mentioned above.

In considering the nature and size of the space to be taken in publications check up the extent of the circulation, as well as the classes of people which read them. If you have been doing constructive advertising in the past this experience will be helpful in judging of the nature of your future advertising.

Divide the year into its months. Allot to each month a certain amount of advertising effort. Work out the schedule in detail, approximating the newspaper space, direct mail matter, etc., that should appear in that period. Give each month a fair advertising show, for while spring and summer are the greatest actual working months new buildings are of course planned in advance. Thus your advertising will help you over slack seasons.

Take winter building, for instance. It has its great advantages in enabling you to distribute your overhead, and to keep your organization together. Ordinary costs of winter building are neutralized by the savings on materials, freight rates, discounts, etc. By scheduling the appearance of your advertising through what was formerly a hibernating season you inject timeliness and profit into your advertising, to your benefit and that of the owner who gets into his building that much sooner.

The preparation of an advertising plan will enable you to avoid spasmodic, lost-motion, advertising. Keeping everlastingly at advertising keeps you everlastingly in the mind of the public. As a result you secure cumulative value of advertising—drop by drop that wears away the stone of public indifference.

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News from the Field

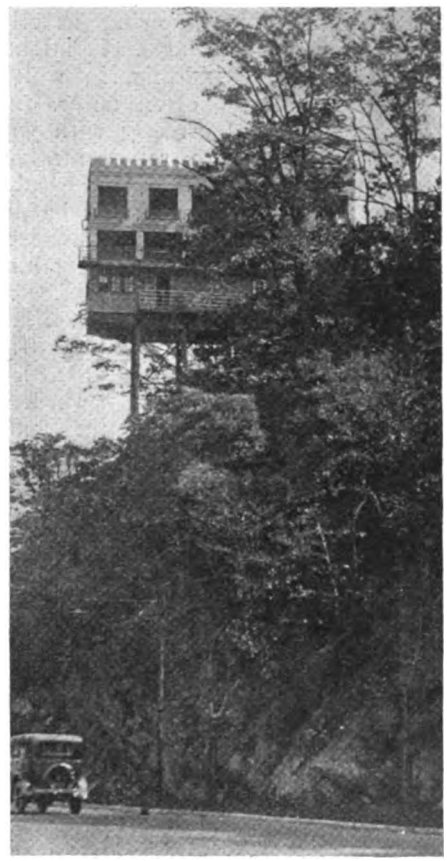
Labor Costs and Material Prices

THE upward tendency of wage rates in many of the larger cities of the country this year has had the effect of still further increasing the wide difference between labor costs and material costs in construction.

From a report of the National Association of Building Trades Employers it is shown that the general trend of material costs has been downward since the middle of 1920. Except for a slight recession beginning in 1921 and continuing into 1922, the general trend of labor costs has been upward.

Taking January, 1923, as 100 for the starting point, the cost of labor stood at 119 in July of last year. During July of this year it had reached 124.8 showing an increase of about 6 per cent in twelve months. Building material costs decline to 82.5 in June of last year and in June of this year stood at about 81. The upward movement of wages this year was contrary to many expectations. Well informed opinion on the situation considers the building wage out of proportion with that of the industry and reaction will come sooner or later.

A similar survey made by the National Lumber Manufacturers Association points out that labor has gained 5 points since 1914 and materials have lost 5. As figures stand now, labor gets 60c. of the building dollar. In 1914 the ratio was 44-1/10 for material compared to 55-9/10 for labor.



A BACKYARD (?) 200 ft. above the street! The Cleveland Wolcutt home in New York is supported on girders and overlooks the Hudson

Concrete Units Pass Govt. Tests

CONCRETE units have long been used in building construction but it it only within the past few years that the manufacturer of concrete brick, block and tile, has attained a rapid growth.

In order to answer questions regarding properties and manufacturing methods, the Bureau of Standards of the Commerce Department has prepared a circular covering the essential features.

Various materials widely used in the manufacture of concrete products are described in details. Questions of proper size and quality of aggregate, facing materials and coloring processes are outlined.

Copies are obtainable from the Supt. of Documents, Government Printing Office, Washington, D. C. Circular No. 304 of the Bureau of Standards. The price is 20c.

$150,000 Apartments for Canada

THE application has been made for a permit to erect a $150,000 apartment house in Hamilton, Ontario, Consul R. F. Boyce, of Hamilton, informs the Dept. of Commerce. The building will be five stories of brick and tile construction will be started immediately. suites. Plans have been filed and construction will be started immediately.

More about Architectural Show

THE management and standing committees for the Second Architectural and Allied Arts Exposition to be held in New York February 21st to March 5th, 1927, have already progressed fully in their organization plans.

The exhibition will constitute a comprehensive presentation of architecture, sculpture, arts and crafts, building materials, decorative materials, etc. The exposition will be held under the auspices of Architectural League of New York.



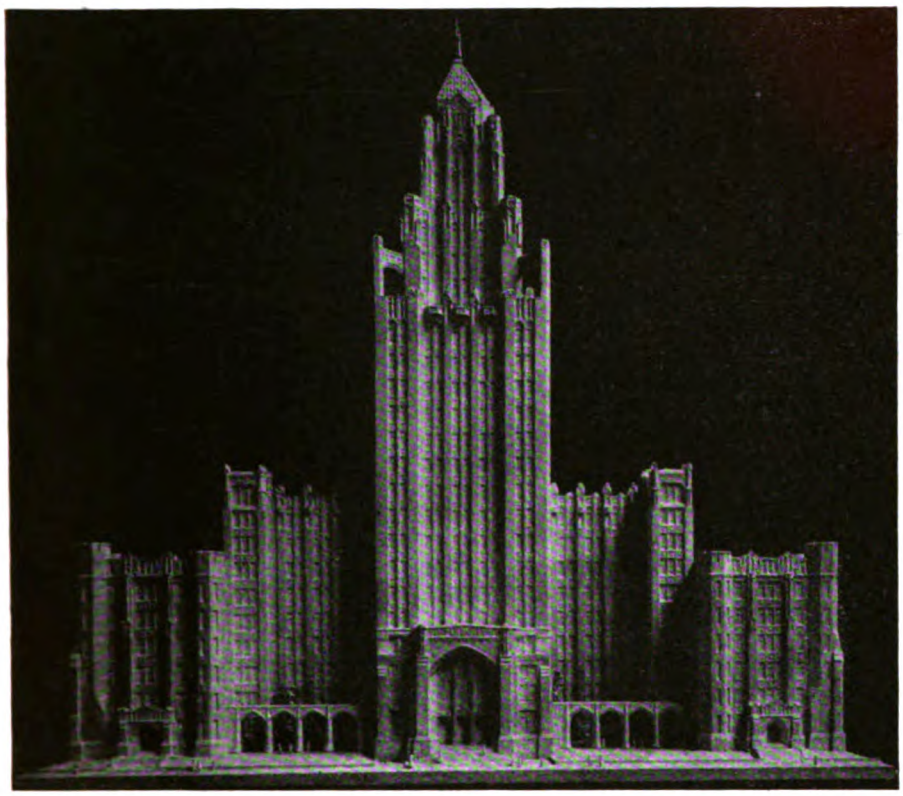
A WAREHOUSE de Luxe in Los Angeles. It was constructed by a man who saw no reason why warehouse buildings could not be architecturally pleasing. Mosaic roof and stained glass window complete effect

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Government Building Plans

A DISPATCH widely published in the New York press during June gives some account of the plans the government contemplates taking to stabilize the building industry during the next few years.

The government building program contemplated in the authorization of Congress of expenditures aggregating $165,000,000 over the next six years will be manipulated by the Secretary of the Treasury Mellon to offset any general financial depression or threat of unemployment. Government operations will be expanded in lean years, and held down in full years of private construction. The building industry is regarded as the keystone in the industrial arch because it has so many related and dependent lines, including the lumber, cement, stone, gravel, iron and steel, plmbing supply, roofing material, and other industries. It is almost always the first industry to reflect spreading unemployment.

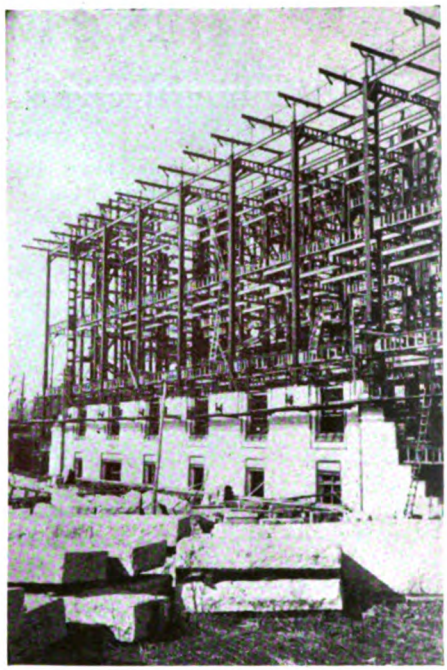


A Sky Scraper College Building

A UNIQUE departure from established collegiate architecture is involved in tentative plans for a new group of buildings for Temple University in Philadelphia. Forced by congested urban conditions to expand sky-ward, rather than laterally, the Temple proposes to erect a "Temple of Learning" 23 stories high. Thus, in line with the noticeable trend toward tall college buildings, the Temple University will become a sky scraper university.

In deciding along this line, trustees borrowed from the experience of the Northwestern University, which is planning a huge educational structure on McKinlock campus in Chicago. Another similar example is that of the "Cathedral of Learning" of the University of Pittsburgh.

The architecture of the new Temple Building is described as modern Gothic applied to skyscraper construction. As it rises skyward from the lower group, the tower will be offset at the sixteenth story and rises 60 ft square for four stories. The building program is the outstanding feature of a $20,000,000 campaign to extend 15 to 20 years.



JAPAN is guarding against future 'quakes'. The new Imperial Diet Building, now under construction, shows the enormous amount of steel that is being used. Only an unprecedented earth tremor could reduce this substantial structure to ruins

Request for Issue of May, 1917

A READER asks us to obtain a copy of the May, 1917, issue of Building Age. Any subscriber wishing to dispose of this issue, communicate with our office, 243 West 39th St., New York.

Norwood, N. J., Reader's Name Wanted

ONE of our readers, located at Norwood, N. J., has written to an advertiser regarding woodworking machinery but unfortunately neglected to sign his name. Will this reader please communicate with the manufacturer again, giving his name and address, so that the manufacturer can furnish him with desired information. This is important if the reader wishes to hear from his inquiry.



TWO peas in a pod could not be more alike than these German two story homes. Borrowing their general lines from the days of cliff dwellers, these dwellings are constructed with utmost efficiency, if not with architectural beauty in mind.

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News from the Field

Prize Winning Designs Built

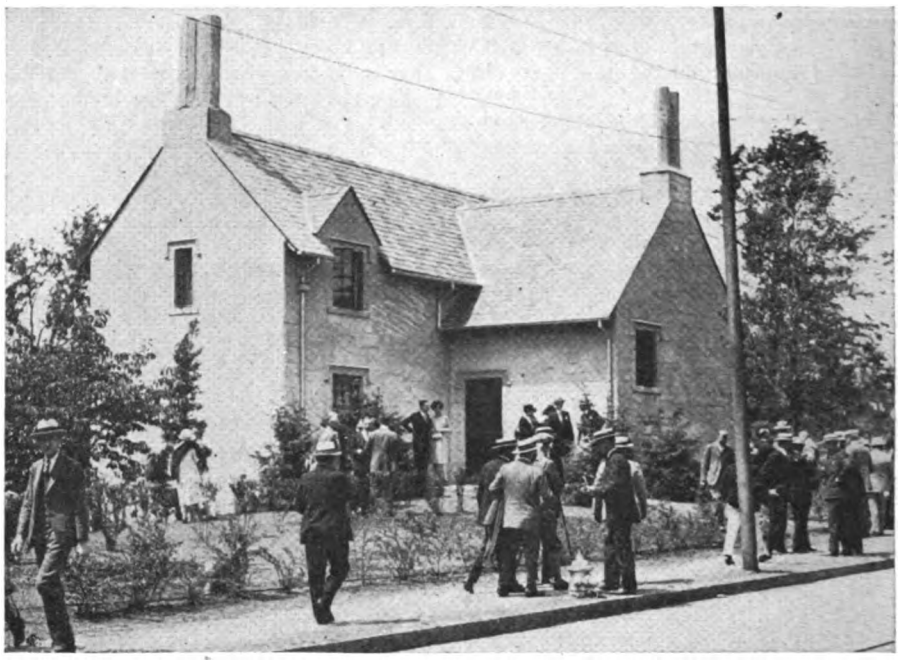
THOUSANDS of people have inspected the four prize winning demonstration homes built in New York City, Chicago, Birmingham and Kansas City by Lehigh Portland Cement Co.

The designs were the result of the national architectural competition conducted last Fall and offering more than $4,000 in prizes for small house designs of concrete masonry construction. The four prize winning designs were shown in our February issue.

The Lehigh Company set out to accomplish four things in this campaign; first to render a service to dealers by increasing the sale of different materials; secondly to enlist the cooperation of the architectural talent to the end that there would be available expert small house plans of masonry construction; third, to secure new dealer cooperation, and fourth to demonstrate to architects, builders and the public the use of concrete masonry construction.

"Visitors to the Lehigh homes were not curiosity seekers" states the Lehigh report. "On the day of the opening of the Chicago house, rain fell throughout the day and 1,800 people journeyed to this Chicago suburb to inspect the house from hours of 1 P. M. to 9 P. M. There was apparently a desire on the part of the visitors to know more about materials entering into home construction."

In all four of the houses a section of the wall was cut out, showing the construction, the use of metal lath, and the proper application of interior and exterior plaster. In each house in a glassed-in compartment cut out on the outside wall was placed an electric heater generating a heat of 178 degrees. A thermometer, placed in this cut out section directly against the concrete block registered 76 degrees, thus demonstrating in a graphic way that wall did not permit transfer of temperature.



Lehigh House, Bronxville, N. Y. Built from first prize six-room design

Winter Construction

ON winter building labor productivity and labor costs are much less per unit of construction. This is the basis of a recommendation made by the New York Building Congress to builders, architects and owners. Studies and investigations made by the owners have revealed these facts.

1. The direct additional costs due to construction carried on in cold weather are but a small percentage of the total cost of a building.
2. Such direct winter costs are more than offset by savings in other ways.
3. These conditions extend down the scale at least to operations as low as $100,000.

The indirect savings which more than counter-balance winter costs may be enumerated as follows:

1. Labor bonuses are eliminated.
2. Labor turnover is reduced.
3. Spread in overhead expense of contractors throughout the year reduces organization and equipment costs.
4. Tendency of contractors to lower their margin of profit with the idea in mind of securing sufficient work to keep their organization intact during the winter months.
5. Season discount on materials.
6. Seasonal rates by transportation companies in order to relieve the congested periods.
7. Saving of interest and taxes on investments lying idle.
8. Earlier returns on investment.

Journeymen Bricklayers On Increase

THERE has been much comment during the last few years on the decreasing number of journeymen bricklayers and the small amount of apprentices in the trade," says a recent bulletin of the Common Brick Manufacturers Association of America.

"In July, 1921, the total number of journeymen was 83,634. There were at that time only 1,437 apprentices being trained. In 1924, the number of apprentices had increased to 10,656 with a total of 108,484 journeymen.

"In June, 1925, there were 11,516 apprentices or eight times 1921."



A METROPOLITAN city in the boom state. Airplane view of Tampa, Florida, showing now high buildings have risen in the last few years. Appearance of structures is much the same as in northern cities

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With the Manufacturers



Larger Quarters for Equipment Mfr.

THE new home of the Abram Cement Tool Company is now at 2300 Michigan Avenue, at the corner of 15th Street, Michigan. This location, just opposite the new Michigan Central passenger station has been completed only recently. Formerly, the company was located at 3818-3834 Grand River Avenue, Detroit.

The main office, salesroom, warehouse and factory will now be located under the same roof. Founded in May, 1916, by J. D. Abram, present head of the company, the purpose first was to introduce a patented tool for finishing concrete surface. At the present time, the Abram line includes concrete mixers and block machines, power tampers, and material handling equipment for block plants.

Mr. Abram, says that business is fairly active in all lines of contractors and products plant equipment; while buying has not been feverish it has been consistent.

The Abram Cement Tool Company was incorporated last January with J. D. Abram founder of the business, president. C. L. Stoflet, vice-president; Mabel Brown, secretary and treasurer; J. M. Waterston, Burr Otis, George D. Taylor, C. H. Mooney, directors.

Consolidation of Cinder Concrete Mfrs.

A RECENT announcement tells of the 18 cinder manufacturers (controlling 19 plants), into one company to be known as the National Building Units Corporation, with headquarters in the Insurance Company of North America Building, Phil.

It is the intention of this organization to add new plants to its ranks from time to time, in sections of the country where territorial rights have not yet been assigned. All plants comprising the consolidation, will manufacture and sell Cinder Concrete Building Block. This block is manufactured under Straub and Bo Patents.

Officers of the National Building Units Corp. are as follows:

President, Leroy A. Goodwin, Concrete Specialties Co., Camden, N. J.; vice-presidents, F. J. Straub, Inventor of the Straub Patented Building Block, and George L. Benbo, of Rufus Waples & Co.; treasurer, Horace P. Griffith, president H. P. Griffith & Co., Philadelphia; secretary, Charles L. Pierce, Rochester, N. Y.; chairman of the board of directors, Charles F. Conn, president of Giant Portland Cement Co.

The plants that make up the organization are as follows:

Flint Cinder Block & Products Company, Flint, Mich.; Detroit Cinder Block & Tile Company, Detroit, Mich.; The Straub Patented Block Company, Warren, Ohio; Straub Block Company of New Castle, New Castle, Pa.; Straub Block Co. of New Kensington, New Kensington, Pa.; Straub Block Company of Pittsburgh, Pittsburgh, Pa.; Erie Patent Block Company, Inc., Erie, Pa.; Jamestown Block & Tile Company, Inc., Jamestown, N. Y.; Genesee Brick and Supply Corporation, Rochester, N. Y.; Cinder Tile Company, Inc., New York, N. Y.; Geneva Brick Products Company, Inc., Geneva, N. Y.; Elmira Building Units, Inc., Elmira, N. Y.; Harrisburg Building Block Company, Harrisburg, Pa.; Penna. Con. Roofing Tile & Cement Prod. Co., Lemoyne, Pa.; Lancaster Concrete Tile Company, Inc., Lancaster, Pa.; Washington Concrete Products Co., Washington, D. C.; Phila. Partition & Bldg. Block Co., Philadelphia, Pa.; Concrete Specialties Company, Camden, N. J.; Concrete Specialties Co., Trenton, N. J.

Opens Branch Office

A RECENT report from the Indiana Flooring Company, is to the effect that a branch office has been established at 1512 Walnut Street, Philadelphia. As a result, this company, with its main office in New York, has eight branches situated in various parts of the country. In addition, the company has factories in Reed City, Mich., and in Coal Grove, Ohio.

Steel Joist Co. Organizes

A RECENT report advises the organization of the Massillon Steel Joist Company of the Pacific Coast who proposes handling the complete line of Massillon materials manufactured by the Massillon Steel Joist Company of Canton, O.

This includes bar joists, bank vault reinforcing, curved chord roof trusses and metal lath, all bearing the trade name Massillon. These steel building materials are manufactured in standardized sizes and shipped from stock.

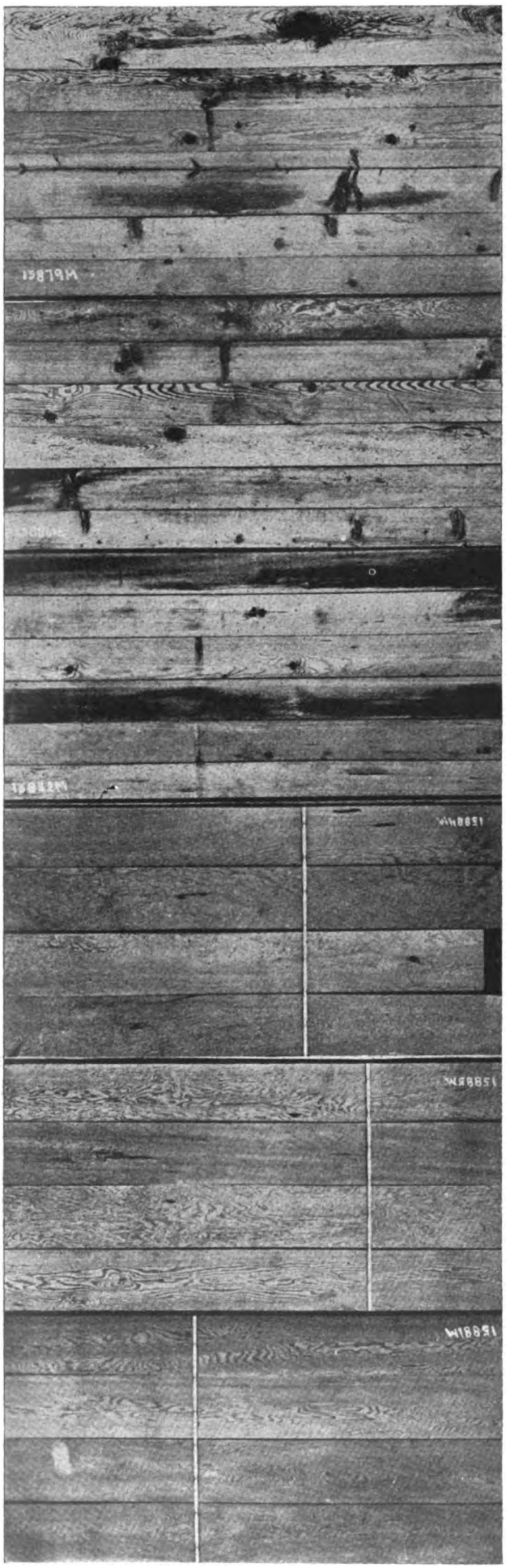
Mr. J. L. Clymer, Vice President and General Manager of the Pacific Coast Company, has been identified for many years in California in executive work, having resigned from the position of executive Director of the California Institute of Steel Construction to take up his new duties. Headquarters will be at 309 Rialto Building, San Francisco.

HOW German manufacturers are advertising to builders. These strong blacks and whites are used to symbolize tools, materials and equipment in a magazine going to German builders and building designers. Considered in the light of American advertising the appeal is at least interesting if not adaptable





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The Present Practice of

Lumber Grading

How It Will Help Builders

By Edward M. Davis

Assistant Wood Technologist

U. S. Forest Products Laboratory

Madison, Wisconsin

THE complete history of American lumber grading has never been written and probably never will be. Much of it could be gleaned bit by bit from the annals of the industry by painstaking research, but much of it, especially the inside story, is locked in the minds of men who have grown up in the "lumber game" and has never been made a part of record.

The object of this article is to give not the minute detailed steps which would be of most interest to the men who made the history, but the broader aspects which concern the technical groups and the lumber users at large in forming an idea of the tendencies of the present.

Lumber grading has gradually evolved from the early practice of simply separating the usable from the worthless material, into the present highly specialized art built up around a large number of closely differentiated grades and items.

The purpose of lumber grades has been clearly expressed by certain lumber manufacturing associations as follows:

"To maintain a standard or measure of value between mills—to harmonize the natural differences existing between different stocks of lumber regardless of the character of the logs from which they are produced, so that a given grade will represent the same value regardless of the mill from which it comes. Uniform grades also provide both buyers and sellers of lumber with a measure by which each can determine whether he is buying or selling full value."

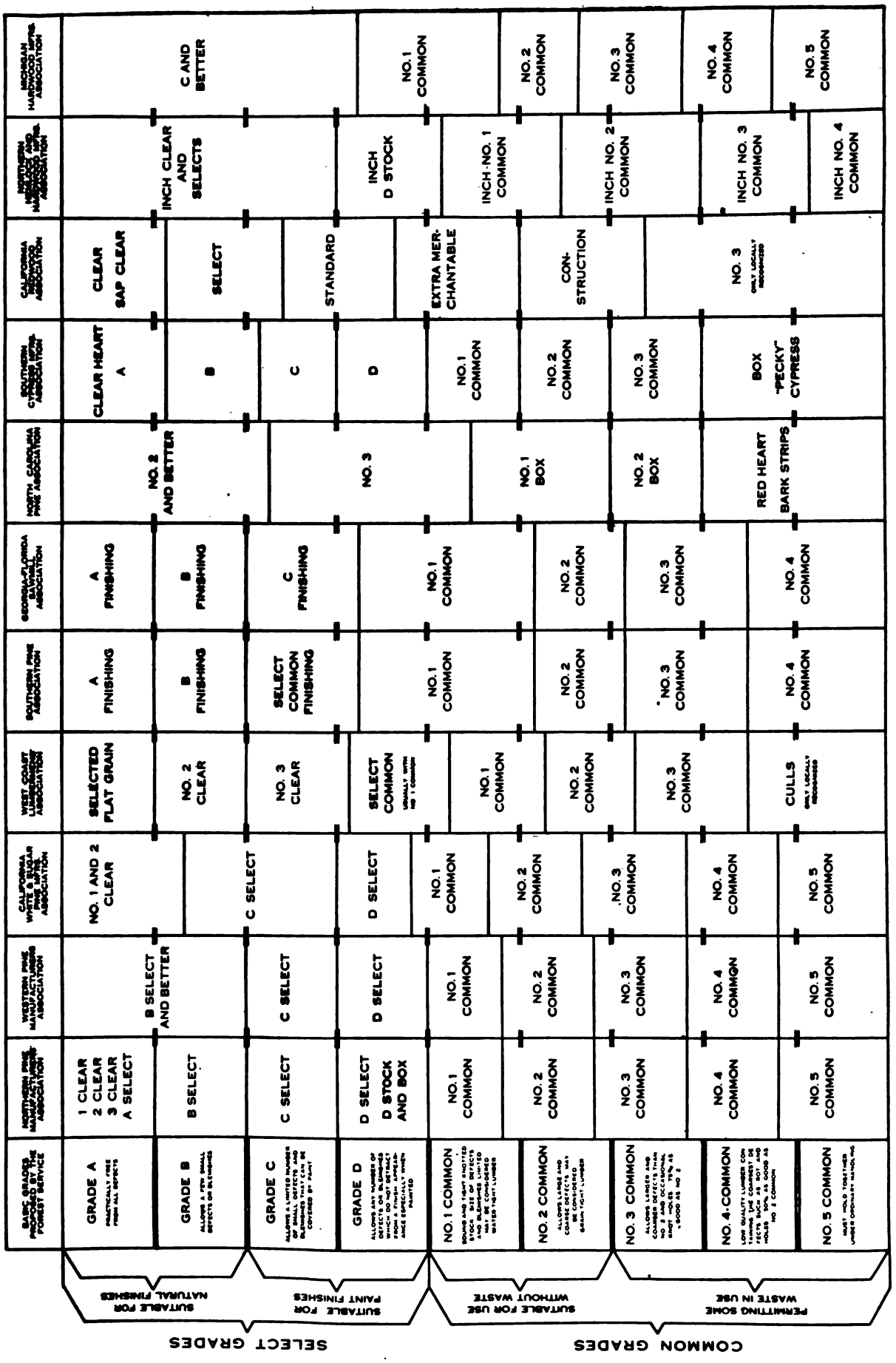
Lumber Grades by Legal Enactment

Lumber grading in America may be said to have begun with the establishment of the first sawmill, probably at York, Maine, in the year 1623. For a long time after sawmills had become common there was no scarcity of high-quality logs readily available. Producer and consumer were usually in close contact, and production was on a hand-to-mouth basis.

THE RAW MATERIAL OF LUMBER GRADES

THE lumber sold by all the associations varies from perfect material at one extreme down to the poorest marketable qualities at the other. The relative proportions of high and low grade lumber vary somewhat in different woods; also it is possible in some regions to sell poorer material than in others. The quality scale shown here, however, may be considered typical. The wood is Douglas fir. Differences in grades resulted largely from some associations dividing their lumber into more qualities than others or making divisions at different points in the scale

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A Handy Table Correlating the Lumber Grading Rules of Manufacturing Associations

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After 1650, sawmills accompanied settlement wherever the colonist went, and so necessary were they to the welfare of the community that it was common to make grants of land to encourage their establishment.

FIRST they were very simple affairs, usually equipped with a single saw held in an upright frame, and were located on streams which furnished the power and often transportation as well. Such mills had a daily capacity of 2,000 to 3,000 board feet and were sometimes operated by one man, a sawmill and grist mill often being run in combination. In those colonial days the settlers frequently supplied the logs, the miller receiving half the lumber as his pay.

All the earlier attempts at formal grading were the result of legislation and not of the meeting of industrial groups by the trade itself in voluntary agreement. Rules were first made in America in connection with export lumber, for even before the eighteenth century New Hampshire had built up an important trade in white pine boards with the West Indies.

Once the trade was established, certain manufacturers evidently began to skimp the sizes and to mismanufacture, for in 1683 it was found necessary to protect that trade by fixing certain standards of manufacture. These rules dealt to some extent with sizes, defects, tally, and penalties.

Before the Revolution, grading regulations had been established by law in New England, and survivals of this condition may still be found there. The grading was usually performed by men who were elected or appointed to the position and were known as cullers, viewers, or surveyors. These men performed the tasks now in the hands of the manufacturers themselves.



HANDLING lumber in a modern mill has been given over to efficient, smoothly operating machinery. This equipment grades lumber according to grain and absence of defects

THE Massachusetts "Surveyors Act of 1783" is often considered the forerunner of our modern measurement and inspection systems. This act provided for the election of a surveyor in each township, fixed the charges for his work, and established certain provisions for shingles, clapboards, staves, and hoops as well as for lumber.

The old rules take account of one of the inherent difficulties in lumber grading, namely, the human element, leading to differences of opinion and interpretation and resulting in marked variability in grades. The problem was then solved as it has been solved ever since, by the appointment of a "Chief," whose decision was final and whose principal function was to secure uniformity.

Likewise in large modern mills, many of which produce as much lumber as any local distributing point sold in colonial times, uniform application of the grading rules within the plant is secured through a Chief Grader who supervises the work of several assistants.

White pine was probably the first native American wood to be graded as a separate and distinct *species*. In 1832 an act establishing grades for Penobscot County (Maine) was passed, which read:

"Pine boards shall be of four sorts.

"No. 1 shall include boards not less than inch thick, straight grained, free from rot, sap, knots, and shakes.

"No. 2 includes boards not less than inch thick and free from large knots and suitable for planing.

"No. 3 not less than 7/8 inch thick, free from rot and nearly square-edged and suitable for covering boards.

"No. 4 shall include all boards and plank of every description not before mentioned."

It is a far cry from these simple rules, describing grades by a few general qualities, to modern grading rules sometimes covering hundreds of products and contained in booklets of 40 to 100 pages such as are issued by various associations.

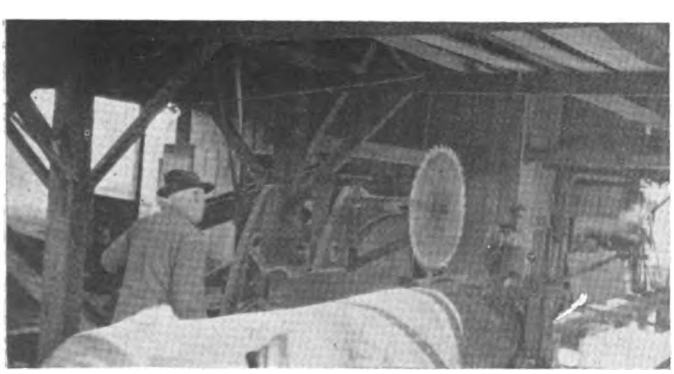
Standardization, Latest Phase

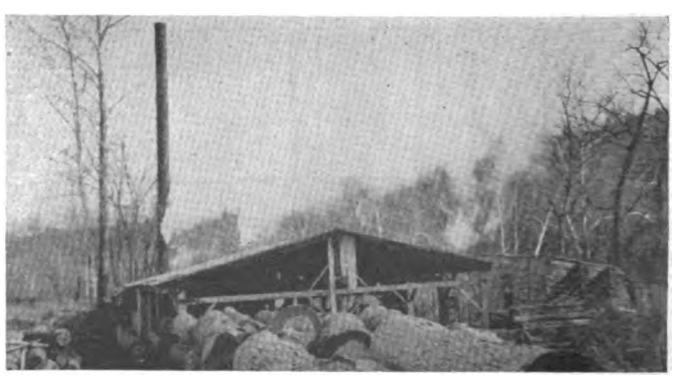
A highly significant event occurred in 1919, when the first American Lumber Congress met. It was followed shortly by conferences of producers, distributors, and consumers, at which the industry committed itself in favor of the standardization of grades, sizes, nomenclature, patterns, and shipping practices.

THE Forest Service was interested in this subject for years, had a large amount of information available, and advanced the movement to the extent of its ability through technical studies which resulted in proposals upon which subsequent progress has been based. Meanwhile the Department of Commerce became interested and has been of great assistance through

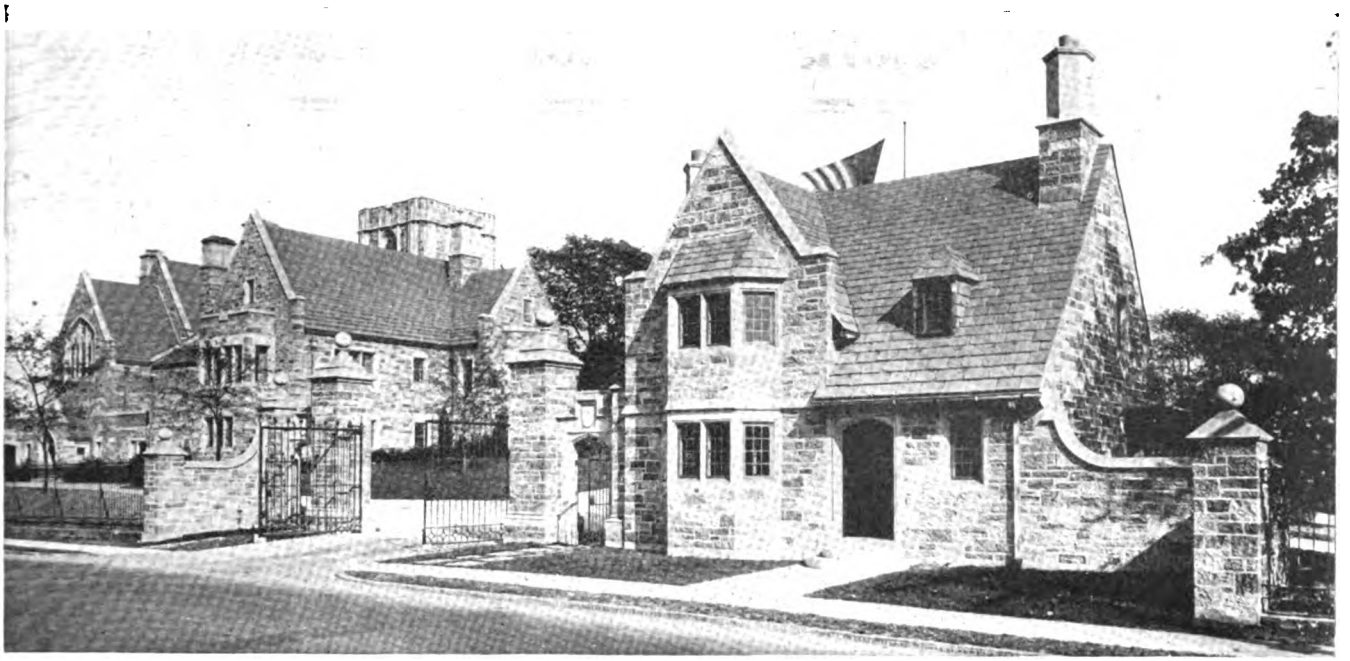
(*This article continued on page* 154)

A small saw mill and its staff. Requirements of the small mill have influenced lumber grading for over 300 years. The small type is almost certain to maintain or increase its importance as a lumber production unit as present large timber holdings are cut over. Economies of manufacturing, however, are making group production profitable





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Where Building Art Softens Sorrow

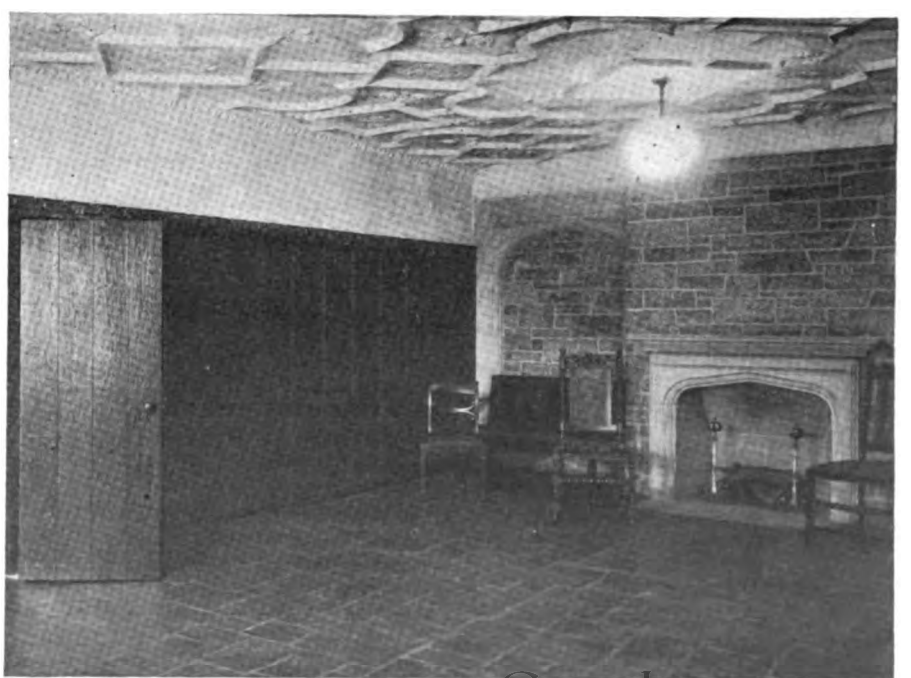
Homewood Cemetery Buildings at Pittsburgh, Penna.

IN the interior of the Homewood Crematory Building, everything has been done to provide a beautiful and restful atmosphere. Above is the mausoleum, where dignity and peace are preeminent. At the extreme top is a general view of the building group, richly done in stone and slate

MacClure & Spahr
Architects

Pittsburgh, Penna.

Edward Wehr
Builder



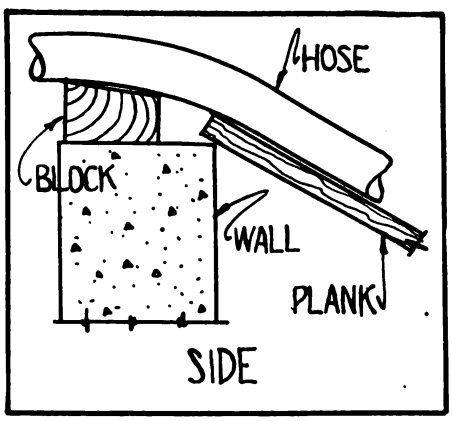
A second interior view that shows a section of the patterned ceiling, a flagged floor, a simple fireplace and furniture in harmony. Heavy oak doors on left open to Crematory. Equipment furnished by Morse-Boulger Destructor Co., N. Y.

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On the Job with the Construction Editor

Hose Placed at Angle

THIS doesn't seem like much of a help but it is, nevertheless, an item often overlooked by many builders. Many a time the writer has seen in-



stances of hoses delivering only a small amount of their capacity due to the fact that they were pinched somewhere or other along the line.

Here the hose was taking water from one level and delivering it to a higher one. Note that instead of being allowed to rest on the sharp corner of the wall the hose is carried on a plank so that the curve at the edge of the wall is a smooth gradual one instead of a sharp one which would serve to cut down the flow. Next time you find a hose that isn't delivering, take a look and see if a short length of plank won't help a little.



Making the Most of Clothes Closet

DID it ever occur to you that the average clothes closet contains more waste room than any other room in the house in proportion to its size? That is going some, if true, for the proverbial closet is half the size the average housewife thinks it should be. But why have the closet eight or nine feet high with only one shelf in it? Why only one row of hooks,

Here are four ways to increase closet efficiency:

Where the method is used of leaving a space from two to three feet between bedrooms and dividing it into two closets, one for each of the bedrooms, or where such closet occurs next a coat closet or a linen closet, fur down in one of them and make a false ceiling just above the door head and floor it to form a high shelf open to the adjoining closet. Suitcases and such will be welcome on that top shelf.

When there are smal children in the family, foster their independence and encourage their neatness by placing a row of hanging hooks about three and one-half feet from the floor for the kiddies' use.

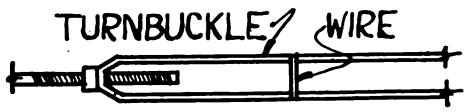
In the end of the closet place a movable inclined shoe shelf nailed to two triangular brackets to rest on the baseboard. Nail on a strip a little below the upper edge on the top side of shelf and stand your shoes thereon with the heels over the strip to keep them in place. The shelf and brackets lift out in one piece, being fitted loosely for that purpose.

Certain closets where room is at a premium will be very grateful if you supply them with a row of high hooks near the ceiling to hold articles needed seldom but which are always in the way when not in use.

Then about light. Don't forget the little casement sash to admit daylight into the closet, and put the electric light just over the door so you can find it without grouping.—E. Neal.

Stiffening a Long Turnbuckle

IN these days when reinforced concrete has become a common material for building large structures it has been necessary to develop the design of hoist-



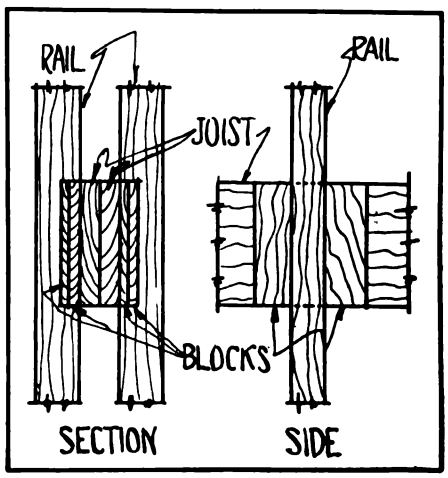
ing towers. Practically all towers in use today consist of a wood or steel frame supported by guy wires, the play in the guys being taken up on turnbuckles.

For towers of exceptionally tall heights, where considerable slack may occur in the guys, the turnbuckles used may be three or four feet long. In turnbuckles of this length there is a possibility of vibration causing a loosening of the bolt due to the unsupported length of the sides of the turnbuckle. If, however, the turnbuckle is tied with wire as shown in the sketch it will be considerably stiffer than if the wire had not been used, and there will be little chance of vibration.

Stiffening Elevator Rails

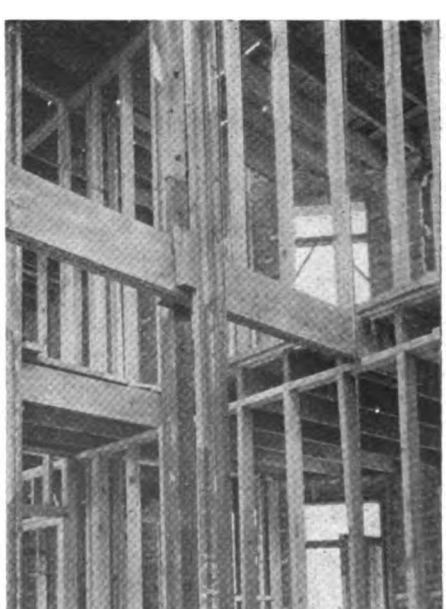
ONE of the major cause of accidents on building construction jobs is the improperly erected material elevator.

It is probably because of the fact that



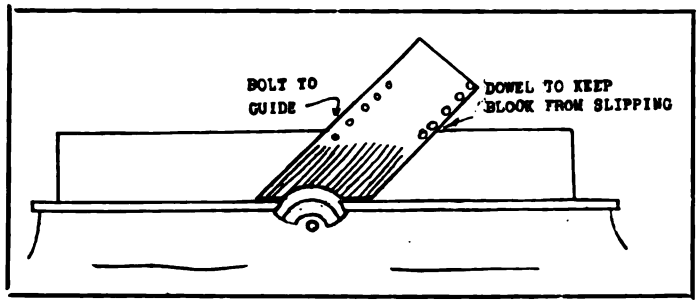
the material elevator is thought of in the light of a temporary installation that it is so often put in in a slipshod manner. It must be borne in mind, however, that a material elevator is a device upon which heavy loads are transferred from one story to another, and a heavy load being lifted is always a potential source of accidents.

It is important that the rails be as stiff as possible in order to prevent the swaying of the car and the consequent droping of material on those who may be working or passing below. In the sketch is shown a method for helping to stiffen the rails. It consists of setting blocks on either side of the base to which the rail is fastened, and thus preventing side sway. The job takes only a minute or two, and is well worth the trouble.



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On the Job with the Construction Editor



Surfacing Small Strips on Jointer

THE risk of one's fingers being jarred into the blade often makes it difficult to surface small strips on a jointer. The following is a method that will eliminate the danger in this work.

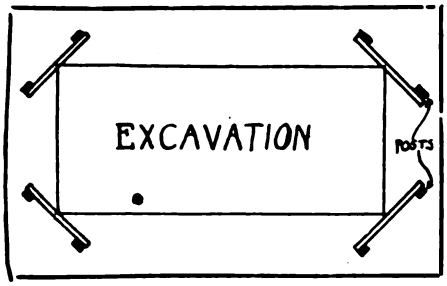
A piece of oak, about 5 in. wide and about 10 in. long has one end cut with a series of slots running length-wise as shown in the illustration. The end of the black is cut off on a slant and holes are bored for three-eights dowels and for an eighth in. bolt. The block is bolted to the jointer guide as shown, the thickness of the strips to be surfaced determining the height to set the block from the table.

The purpose of the dowel is to keep the block from slipping up when the stock is pushed underneath. This kink works excellently as the strips are held down on both sides of the blades, while they are going through.—**N. Nelson.**

Excavating for Cellar

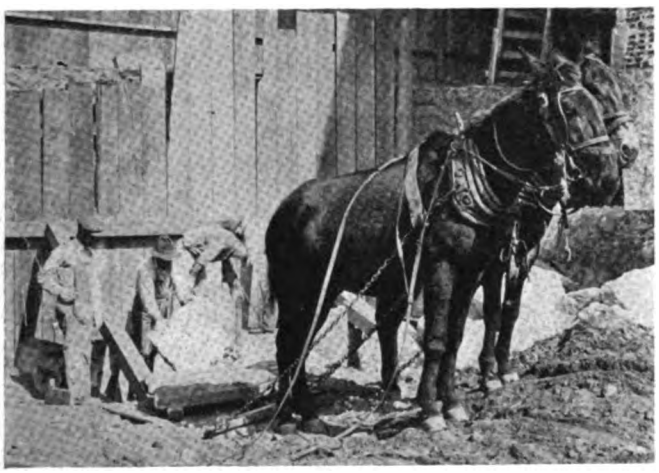
THIS is an idea that is being used in so many sections of the country and most builders are acquainted with it. The idea is to provide lines either for excavation or for the mason's work in such a manner that workmen cannot possibly undermine mistakes.

Pieces of 3" x 4" are driven in the ground as indicated and a board about 1 ft. wide and 3 ft. long is nailed across each pair of stakes. Then lines are set and attached to nails driver near the center of the board. In this way it is seen that the excavator can dig right up to the line without danger of the stakes caving in and destroying line.—**A. A. Kelley.**



Hauling Stone from Excavation

HERE is a job where it was required to haul heavy pieces of stone out of an excavation. It was found that a wheeled cart was not the proper thing for the work, due to the fact that the stone had to be lifted into the car.



Inasmuch as a regular stone cart—that is a low slung platform between wheels—was not available, this drag was constructed and a pair of mules used to haul it. While the drag required quite a bit of mule power, the loading of the stone required comparatively little man power and, inasmuch as man power is more costly than mule power it cannot be said that arrangement is not efficient.

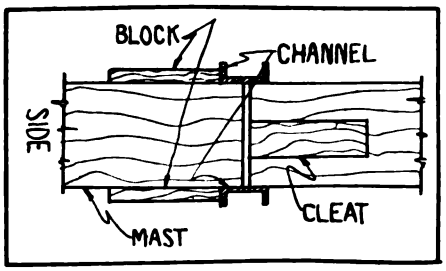
The drag is built in the form of a platform mounted on skids. The skids were approximately 6" wide. This arrangement will work very well from dry soil but it is hardly to be recommended where mud is liable to be encountered.

This arrangement was found to be especially efficient when working in close quarters. If a wagon had been used instead of the drag it could not have been carried into the out-of-the way places, and the stone would have had to be carried to it. With this kind of an arrangement drag is lifted into tight corners.

Lime for Wallpapering

TO stick and stay stuck is one of the essentials of good wall papering and in this connection the versatile lime, which enters into so many manufacturing and trade processes, has an important use.

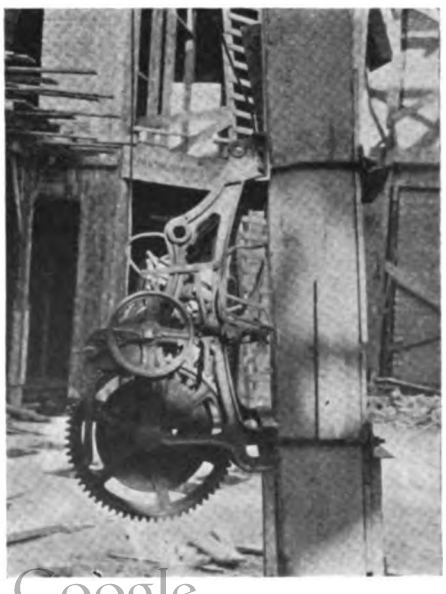
A lime-casein mixture of 1 part casein to 5 parts lime, brought to a thin creamy consistency with water is often used to size plastered walls in preparation for papering. Paper sticks better to walls sized in this manner than to walls which are not treated. This sizing mixture is economical and easy to prepare and apply.



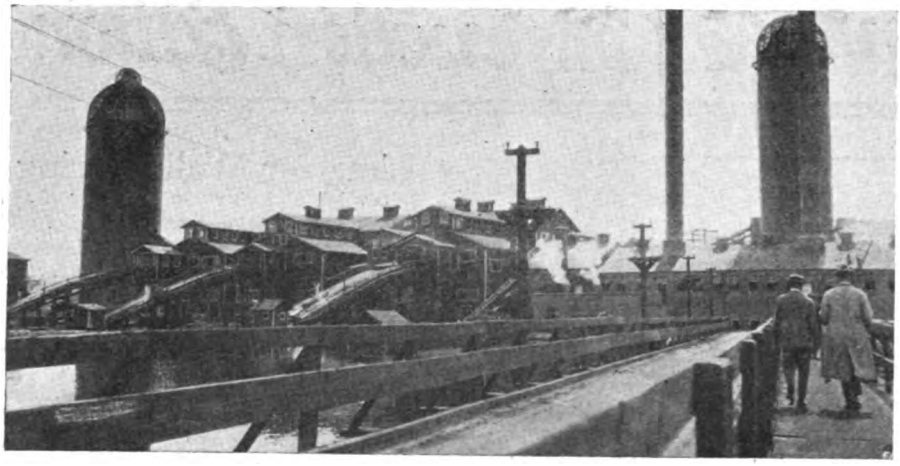
Holding Derrick Crab

HERE is a little item which may go far toward the promotion of accident prevention on a job where derricks and gin-poles are used. The best part of all is the fact that it takes so little time to provide this safety precaution.

It consists of setting wood blocks above and below the bolts which hold the crab to the leg of the derrick so that there is no possibility of the crab slipping up or down. A slip of the crab while a load is being held might mean an accident, and such a slip is well liable to occur when a fastening such as this is used unless the precaution illustrated is taken.



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A LARGE saw mill of this type operating on the virgin stands of the West Coast produces enough lumber in one day to build 40 small dwelling houses. Large scale production is necessary to meet the demand

[LUMBER GRADING
(*Continued from page* 150)]

the impetus lent by its strong support.

Of recent years much criticism has been heard about "too much Government in business," and it might at first seem that lumber standardization offers another example of that sort. In reality, however, it is a final step away from Government supervision by influencing the lumber industry to correct its own abuses and set its own house in order.

IT is an effort to accomplish, by voluntary agreement among *all* branches of the industry, including producers, distributors, and consumers, what otherwise would probably be less efficiently performed by law.

It is part of the large post-war program of the Government and the industries dealing with a great variety of products, which has for its object the reduction of waste in industry through the elimination of a needless diversity of products.

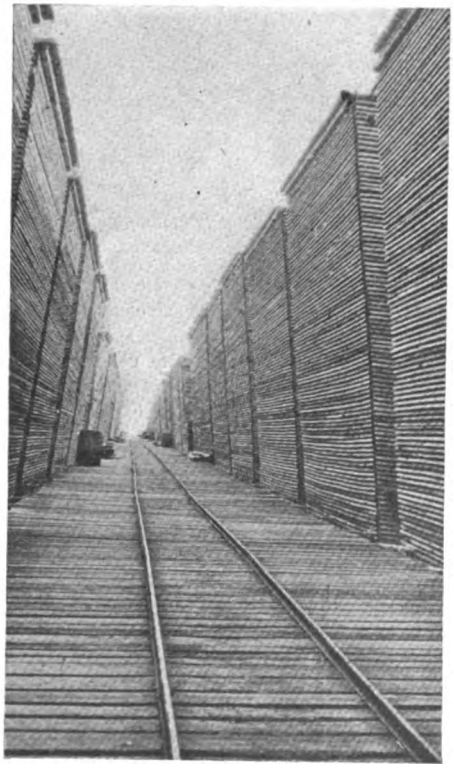
As a result of the 1919 Lumber Congress a guiding body known as the Central Committee on Lumber Standards was appointed from among the lumber and allied industries, as well as a larger organization known as the Consulting Committee on Lumber Standards, in which all branches of the lumber industry are represented.

Details of the difficulties encountered and of the slow but steady progress made at frequent committee meetings during the few years following would be of little interest except to those directly concerned. The main outcome is that an inclusive body of rules rightly entitled "American Lumber Standards" has been officially adopted, and it is enough to say that standardization in the lumber industry is an accomplished fact.

Many of the important organizations have endorsed the American Lumber Standards and they are acceptable under the provisions of 91 per cent of the building codes.

The first year of American Lumber Standards was more or less in the nature of a trial, and while not all manufacturing associations were in a position to make the necessary changes, the outcome was quite gratifying. The second year, ending July 1, 1926, shows still further advances.

Returns covering the month of February, 1926, indicate that 74 per cent of finish, 85 per cent of common boards, 81 per cent of dimension, and 81 per cent of flooring are being marketed in standard thickness, and that the remainder is largely thicker than standard.



WHILE air drying requires several months, kiln drying needs only a few days. After seasoning, by either process, the lumber is passed through the planer, machined, and assigned to its finished grade. Air drying shown

Retailers' orders indicate a strong preference for American Lumber Standards. With more manufacturers coming into line during the present year, there is no doubt that improvement will continue steadily.

It is, of course, to be understood that American Lumber Standards apply only to the staple structural and industrial items of lumber on the general market, which are said to comprise 80 per cent of the total. The intention was never to standardize special items, and their production will not be affected by the movement here discussed.

A minor part of the lumber standardization program is *grade marking,* which is really nothing more than a development of ordinary trade-marking. Indeed, grade marking itself has for some time been applied to export lumber, and now for more than a year certain southern manufacturers who inaugurated the practice have been grade marking many of their domestic items with gratifying results.

The movement has spread to other regions and is undoubtedly gaining momentum. It is claimed that where the grade is marked on each piece more care is taken to grade accurately, and furthermore there is less likelihood of grade manipulation by unscrupulous parties.

As usually marked, each piece of lumber bears on its end the initials of the association under whose rules it is graded, a number indicating the individual mill at which it was made, and the grade itself. The idea has been expressed that grade marking makes possible the use of "pedigreed lumber."

IN conclusion, the author acknowledges his indebtedness for a considerable portion of the historical matter herein to the following authorities:

History of the Lumber Industry of America, by J. E. Defebaugh.

U. S. Department of Agriculture Bulletin No. 71, 1906—*Rules and Specifications for the Grading of Lumber,* by E. R. Hodson.

U. S. Department of Agriculture Circular No. 296, 1923—*Standard Grading Specifications for Yard Lumber,* by E. P. Ivory, D. G. White, and A. T. Upson.

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A Word or Two About Ferris Wheels—and Tilting Mixers



IS THERE A Contractor anywhere who wants one of these things on the job?

It costs a lot of money and time to keep up—and run—it's clumsy and it takes a long time to move and place.

Though tilting mixers may revolve their drums like ferris wheels, there is no reason why they should be clumsy, costly to run, and keep up, and hard to move.

For who wants a mixer like that?

LOOK AT THE ½-BAG REX TILTER.

The ½-bag Rex Tilter is a compact fast acting concrete mixer—
It is low *in first cost*—
low *in operating cost*—
low *in upkeep cost*—
but high in its profit-making ability.

The wide-mouthed drum is set on a bronze-bushed bearing, supported by a single heavy casting.

No chance there for misalignment or excessive bearing wear.

And that wide-mouthed drum isn't so "high-hat" that a man can't shovel into it easily. Yet, it dumps, easily, cleanly, quickly into any wheelbarrow.



The Big Hand-wheel

When you move the ½-bag Rex from job to job don't worry about the road or the Rex. A spring hung axle assures a "balloon-tired" trip without pneumatic tires to puncture, or blow out.

You'll be interested in this ½-bag Rex Tilter. It handles a full ½-bag batch of concrete, cinder concrete, or mortar without slopping.

Its 2-horsepower Stover Engine, equipped with a high tension mag, starts and runs smoothly, and sweetly.

And this Rex does not look, nor act, nor cost like a ferris wheel. As a matter of fact, its remarkable price will surprise you.

This coupon will bring you the price delivered and the booklet which tells the details of the greatest tilter value ever offered.

Send the coupon.

CHAIN BELT COMPANY
723 Park Street, Milwaukee, Wis.
Check the size Rex in which you are interested and a booklet containing complete information on it will be mailed to you.

☐ ½-bag Tilter ☐ ½ to 1 bag Rex 5-S
☐ 1 bag Rex 7-S ☐ 2 to 3 bag Rex 14-S
☐ 6 bag Rex 27-E Paver

Name.....

Address.....

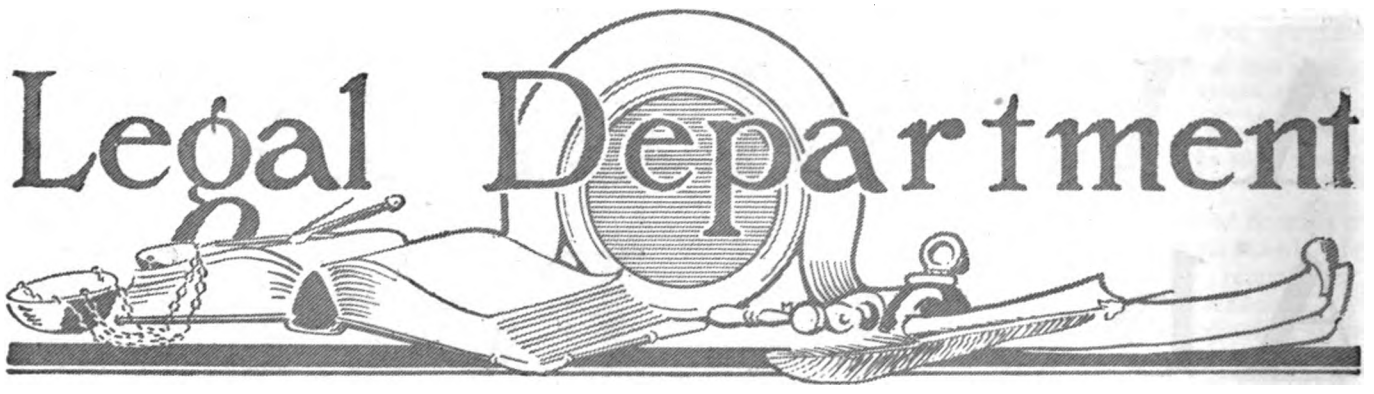
City..... *State*.....

CHAIN BELT COMPANY, MILWAUKEE, WISCONSIN

REX MIXERS

MORE YARDS PER DAY

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Building Line Encroachments

By Arthur L. H. Street

"IN building a house, B constructed a veranda, the entire width of which extends over the established building line," writes a Connecticut reader. "He has put a stone underpinning under the veranda and has closed in and plastered the inside of a part, thus making a vestibule, which I claim is a part of the house? Am I right? Can a bay window project beyond a building line?"

As to porches, our attention has not been called to any decision of the Connecticut Supreme Court of Errors. But in the light of what other courts have decided there is plausible ground for the view that this closed in structure is part of the building within the meaning of the building line restriction, unless the restriction be specially worded to the contrary.

In one of the latest decisions on this subject (Koffman vs. Schreiber, 188 Northwestern Reporter, 333), the Michigan Supreme Court decided that a restriction that 'no principal building shall be erected within 20 feet of the front line of the premises' permitted open porches to extend over the line. The porch involved in that case was constructed of brick and stone below, with wooden pillars, and extended across the entire front of the house. The court said:

"If open porches must toe the restriction line, then no two houses would probably be in line, for porches differ in width; but, under the practical construction given the restriction by the builders of houses within the district, the buildings are on a line."

By using the word "open" the court plainly intimated that had the porch been closed in a different conclusion might have been reached.

The court cites decisions of the appellate courts of Pennsylvania, California, Masscahusetts and New York, holding that porches could not encroach beyond buildings lines. Opposite conclusions reached by the highest courts of Illinois, Georgia, Kentucky and Ohio are also cited.

In the case of Reardon vs. Murphy, 40 Northeastern Reporter, 854, the Massachusetts Supreme Judicial Court declared that an 8-foot piazza extending over a building line was an encroachment. The court cited a previous decision in which a piazza covered by an extension of the roof of the house was held to be an encroachment, and added: "We can see no ground for a distinction between the piazza covered by an extension of the main roof of a house and one covered by its own roof, and attached to the house."

An answer to our correspondent's second question may also be found in the Massachusetts decision, where the court said: "Bay windows are undoubtedly part of a house, and cannot extend over restricted ground."

Suit may be maintained to compel removal of a structure which violates a building restriction. If the restriction be contained in a contract or deed, any interested party prejudiced by breach of the restriction may maintain the suit. But if he has stood by and made no objection to breach of the restriction, or has been guilty of any other action or omission to act which makes it unfair for him to complain after his neighbor has thus been permitted to incur expense, the courts will deny relief. If the restriction violated appears in an ordinance, the municipal authorities should maintain the suit. But an individual sustaining special injury may sue in his own name.

Various Phases of Contracts

THE following remarks answer an inquiry from a Pennsylvania subscriber: It is not feasible within the space here permitted to give full details of the workings of cost plus building contracts. It will be best for the gentleman to consult some nearby architect or builder experienced in such matters, especially since this is desirable in order to conform to local customs in the building field.

Under such contracts, there is usually no occasion for the contractor giving bond to pay for labor or material, although he is frequently required to secure workmen's compensation insurance covering employees on the job, and other liability insurance.

It is generally customary that a date for completion of the building be fixed, with a clause guarding the contractor against delays through strikes or other conditions beyond his control.

Often the estimated cost of the building is stated, with a clause providing that the contractor shall receive ten per cent., or some other percentage, of any saving below that figure. A paragraph defining what shall constitute the net cost of the building on which the contractor's compensation is to be computed should be included, to avoid later misunderstanding as to the propriety of various items.

UNLESS contract specifies a certain sum, usually so much per day, shall be paid by the contractor for delay in completing the building beyond a fixed date, the owner is limited to recovery of his actual loss, ordinarily taken to be the fair rental value of the building during the period of the delay for which the contractor is at fault.

The contractor is not concerned with formal release of a bond on completion of the work, excepting as he may be paying a surety company premiums continuing so long as the bond remains undischarged.

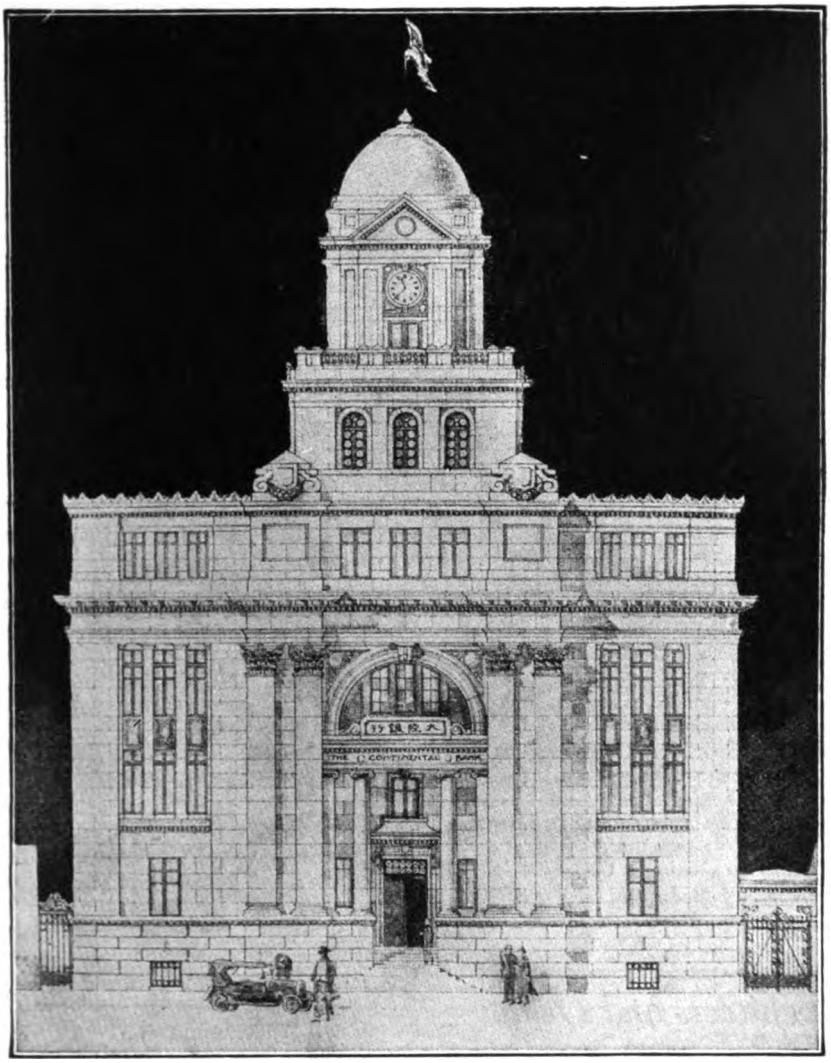
For information concerning what license, if any, is required before engaging in the contracting business in a given town or city, the clerk of the town or city should be addressed.

Write West Publishing Company, St. Paul, Minnesota, for a list of such books as you desire. Any local printer or stationer should be able to either furnish you with blanks desired or refer you to some printer of blanks specially adapted to use in your State.

In any event, be sure that your legal forms are standard and contain no dangerous clauses that may work injury.

These Discussions Are in Answer to Readers' Questions. If You Have Problems of Your Own, Send Them in to Our Legal Department for Expert Advice.

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The New

CONTINENTAL BANK BUILDING

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Architects • • S. S. Kwan & Co.

INTERIOR of finest Philippine Luan and Oak finished exclusively with

Johnson Wood Dyes
Johnson Paste Wood Fillers
Johnson Undercoats
Johnson Enamels
Johnson Varnishes
Johnson Wax

Furnished by American Machinery & Export Co., Tientsen

In China every gallon the builder uses costs *four times* what you pay in America. Think of it! They simply can't afford to make mistakes on materials. The highly specialized quality of Johnson Finishes *insures* perfection.

Cheap materials never pay anywhere. But every Builder can save money on the Best by Buying Right!

JOHNSON'S INTERIOR FINISHES

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S. C. JOHNSON & SON
Dept. B. A. 9, Racine, Wis.
"The Floor Finishing Authorities"

Please send latest *Wholesale* Price List on Johnson Interior Finishes and address of nearest Factory Branch. My name and address are correctly given on attached letter-head.

.....(*Signed*)

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Answering Readers' Legal Questions

Promissory Note and Trade Acceptance

"PLEASE explain the difference between 'trade acceptance' and 'promissory note,'" writes a New Yorker. "Which has the better legal standing as to collecting feature?"

A trade acceptance, as defined by the regulations of the Federal Reserve Board, is "a draft or bill of exchange drawn by the seller on the purchaser of goods sold and accepted by such purchaser." It differs from an ordinary draft payable after presentation in that it contains the following statement, or that in substance: "The obligation of the acceptor hereof arises out of the purchase of goods from the drawer. The drawee may accept this bill payable at any bank, banker or trust company in the United States which he may designate."

As I understand the practice of using trade acceptances, the quoted recital gives commercial stability to the paper not possessed by simple promissory notes, which may have been given for accommodation.

Both classes of paper are equally binding upon the debtor and it now seems to be well settled that trade acceptances are negotiable like ordinary notes. The chief incident of negotiable paper lies in the right of an innocent third person to recover on it, as against the maker or indorsers, free of defenses which might have been asserted by the debtor against the original holder, where such third person has bought the paper before its maturity for value and without notice of any defenses against liability on the same.

Rights Under "Cost Plus" Building Contracts

WHERE, in a contractor's suit for compensation, there is a dispute as to the price agreed upon for a building, evidence is admissible to show the estimated value of the building, holds the Ohio Supreme Court in the late case of Knott vs. Moore-Lamb Construction Company, 144 Northeastern Reporter, 697.

In the same case, it was decided that where dispute arises under a "cost plus" construction contract as to the actual cost of work, it is proper to present evidence showing the reasonable cost of labor and material when the work was performed, as tending to show actual cost. The Supreme Court said:

"If such evidence as that set forth above were not admissible, on the trial of a building contract case, the introduction of testimony upon the part of the builder that he had expended a certain amount upon a building in a cost plus contract would be conclusive and would put the owner completely at the builder's mercy. Such is not the rule with regard to cost plus contracts. The owner is entitled to show the reasonable value of labor and materials at the time that they were furnished, for whatever bearing such reasonable value may have upon the question of actual cost.

"'When a person contracts with a corporation with a reputation for the successful completion of large enterprises, to do a work at cost and a percentage, he has the right to expect the same skill and ability to do the work at a cost less than the current price. Especially is this the case where the contractor has refused to allow the owner to have any supervision over the work, and required him to implicitly trust the contractor, and, when it has been shown that the work has been done in reckless disregard of this obligation, the burden rests upon the contractor to prove that the moneys which he claims to have expended were necessarily paid for materials and work upon the job, making due deductions for expenditures enhanced by the inefficiency and incompetency of his employees. If the contractor fails to do this, he should only be allowed the reasonable cost and his percentage.' Title Guaranty Trust Co. v. Pam (Sup.) 155 N. Y. Supp. 333, 337."

Architects and Delays

A CONTRACT to erect a hotel provided that, "should the contractors be delayed in the prosecution of the work by the act, neglect, or default of the owners, of the architects, or of other contractors employed by the owner upon such work, or by any damage caused by fire or other casualty for which the contractors are not responsible, or by combined action of workmen in no wise caused by or resulting from default or collusion on the part of the contractors, then the time herein fixed for the completion of the work shall be extended for a period equivalent to the time lost by reason of any or all of the causes aforesaid, which period shall be determined and fixed by the architects." Interpreting this clause in the case of Parke vs. Pence Springs Company, 118 Southeastern Reporter, 508, the West Virginia Supreme Court of Appeals decided that it made the architects the sole arbiters of all questions of delay arising under the contract, and that if the architects, in good faith, passed on all claims for delay made by the contractors, their decision on such claims was final and conclusive.

But it was ruled that since the contract did not authorize the architects to waive the owner's claim for per diem damages to be paid for delay in completing the work, as provided for in the contract, a final certificate issued to the contractor by the architects, showing the amount due the contractor for work done, but not mentioning the owner's right to an allowance on account of a delay in completion of the work, was not conclusive against the owner's right to an award of damages in a suit brought for that purpose. And such an award is properly offset against the contractor's claim.

Delaying Completion of Building

IN a case where rights of the owner under a building contract, on account of delay in the completion of the structure, were involved, the Alabama Supreme Court said (Huntsville Elks Club vs. Garrity-Hahn Building Company, 57 Southern Reporter, 750):

"Time being of the essence of the contract, then for breach of this provision by delay in the completion of the building the respondent (the owner) was entitled to the damages sustained, and to recover the same by way of recoupment (offset) when sued on the contract. The measure of damages in such a case is the value of the use of the building for the time that the owner was deprived of the use by the delay of the contractor. . . .

"As we have already intimated, by merely allowing the work to go on to completion after the expiration of the time named in the contract, the owner did not waive its claim to damages for delay, and, when sued on the contract, the owner is entitled to recoup the damages sustained by such delay."

Husband As Wife's Agent

THE Maryland Court of Appeals lately had occasion to reaffirm the rules of law governing the liability of a wife and her property on account of improvements contracted for by her husband. In the case before the court—Kvedera vs. Mondravitzky, 125 Atlantic Reporter, 591—it was ruled that the question of liability turns upon the point whether the wife has expressly or impliedly authorized or ratified her husband's action.

It is recognized by the courts generally that a husband, as such, has no inherent authority to bind his wife or her property for the building or repair of improvements. As stated in 13 Ruling Case Law at page 1172, "Such authority will not be implied merely from the fact that the wife has knowledge of the making of the improvements or repairs, nor will his authority to contract for the erection of a house on her land be implied from the fact that he occupies or manages and controls her real estate."

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Mr. Happy Man Says:

"It's all in the grind. Life is a huge grindstone—some people are ground down—others are polished up—it all depends upon the kind of 'stuff' that's in them. A Saw is a lot like a man—what it is when it comes from the grindstone depends upon the material it is made of. No amount of grinding will make up for 'poor stuff.' And on the other hand, much of the GOOD SERVICE of Atkins Silver Steel Saws comes from their EXCLUSIVE TWO WAY TAPER GRINDING."

Send 35c for high grade nail apron, "Saw Sense", and useful souvenir.

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Home Office and Factory, INDIANAPOLIS, INDIANA

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ATKINS SILVER STEEL SAWS

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USEFUL CATALOGS



THESE pages form a practical guide for builders who whish to keep pace with developments in the industry. Used along with our Selected List of Manufacturers' Literature, this department will be found signally useful.

Electric Power and Light Plants for home and institutions call for a strong, efficient engine. The "New-Way" 8 H. P. air cooled engine of the Marco Light and Power Corp., Lansing, Mich., offers these features. The engine is described in new literature.

Saws are included among the necessary equipment for the builder, whether large or small. The E. C. Atkins Co., Indianapolis, Ind., is publishing a new monthly magazine called "The Saw Kerf." This contains interesting information on the value of the saw and its various uses in the building industry.

Oil Burners are becoming more prominent as heating factors in this day of advancement. As is natural with a new product in the field, many oil burners are coming to the front. The Socony Oil Burner Corp., 11 E. 40th St., New York, is distributing new literature on its product. An interesting folder for builders is "The Heating Comfort you have dreamed of is here!"

Door Butts are used in every type of building. The great volume of building being done in this era means an increase in their use. The building supply dealer, naturally, will want to handle a product that is used to a great extent. Information on a variety of sizes and types of butts may be obtained from the National Manufacturing Co., Sterling, Ill.

Bathroom Fixtures act as sales features for the up-to-date builder. "Modern Conveniences that Insure Your Income," a new book published by the Republic Brass Co., Cleveland, Ohio, discusses thoroughly the quality and beauty of its fixtures. An attractive brochure, "When Beauty Weds Utility" is also being published by this company.

Architectural Windows, along with the Blue Book, and Built-In-Daylight, Residential Windows and Continuous Sash are amongst the new publications of the Detroit Steel Products Co., Detroit, Mich. Every phase of steel window usage is covered in these catalogs. All are attractively prepared and will prove handy reference volumes for the builders' library.

Safety Stair Tread details are being distributed by the American Abrasive Metals Co., 50 Church St., New York. Comparative charts on the savings effected by the use of their product, Feralun Anti-Slip treads are also distributed upon request.

Hardware for sliding doors is now obtainable in the particular design needed for the purpose. The builder is thus assured of equipment that is efficient and up-to-date. The new catalog of the Coburn Trolley Track Mfg. Co., Holyoke, Mass., emphasizes this need for modern hardware.

Hardwood Flooring—The Right Floor in the Right Place is discussed in a new booklet of the Jackson Lumber Co., Lockhart, Ala. The quality and adaptability of Dixie Rift flooring is described in detail, with complete instructions covering the laying and finishing of this flooring.

Atlas Portland Cement has proven its merit. Builders both large and small should keep on hand complete information regarding this product. A new folder called the "Contractor's Atlas" contains a Handy Reference Table which will prove valuable to the builder. A copy of this folder may be had by applying to the Atlas Portland Cement Co., Chicago.

Kitchen Cabinets that combine a complete kitchen, including stove, in one unit, are finding favor in the building industry. A neat and compact arrangement is discussed in an attractive folder issued by The "White" Door Bed Co., 130 N. Wells St., Chicago.

Built-In Features need not be dwelt on in respect to their value as sales producers. A unique cabinet, which is easily converted into a telephone desk, fits in the wall, and contains pigeon holes for telephone notes, etc. Arrangement is provided for an electric lamp which lights automatically when desk top is dropped to answer the telephone. This home convenience is further described in a folder published by the E. W. Arbogast Realty & Construction Co., St. Louis, Mo.

Panelled Doors, if they are to be of real sales value, must leave no possibility for warping, sagging, or swelling. Genuine African Mahogany doors made by the Roddis Lumber & Veneer Co., Marshfield, Wis., are a profitable investment because of their durability. Other features are clearly outlined in a new book of designs published by the manufacturer.

Electric Lighting Fixtures of many attractive designs are the subject of two new booklets of the Paramount Electric Co., 251 Y Market St., Philadelphia. Fixtures for homes, office buildings, factories, hospitals and institutions of all kinds are listed and offer an exceptional variety of styles. A feature that is to be emphasized is a policy of 24-hour delivery service.

Garbage Disposal has become a matter of more than passing importance in apartment and home construction today. In many localities ordinances have been passed requiring the installation of garbage incinerators in apartment buildings. Aside from this, however, the garbage incinerator offers many hygienic features and sales advantages. Incinerite, an incinerator that is manufactured in both portable and built-in types is described in a new folder of its manufacturers, E. C. Stearns & Co., Syracuse, N. Y.

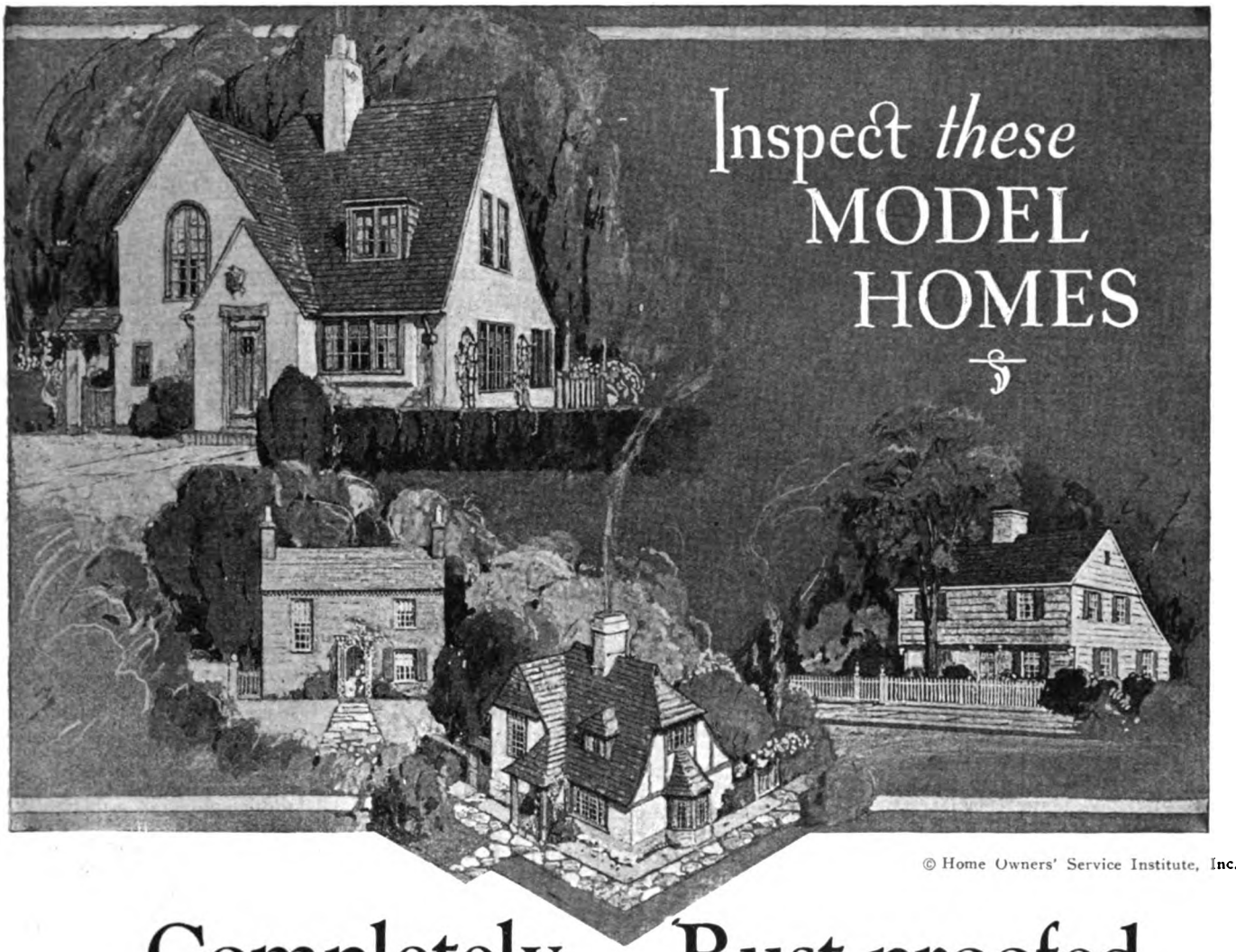
Lighting Fixtures that diffuse and closely control the light mean shadowless ceiling illumination. The Guth Lite is totally concealed, and throws the light where it is most needed and hence saves current. This is described in a new folder of The Edwin F. Guth Co., St. Louis, Mo.

Hand Books of Building Construction are listed in the new 1926 catalog of the McGraw Hill Book Company. Many volumes applicable to the builder's work will be found. The publishers are the McGraw Hill Book Co., 370 7th Ave., New York.

Construction and Equipment Pumps of the 2-pole switch type offer endurance and consistent operation within the large scope of builder's needs. Monarch Engine Co., 244 E. 1st St., Dayton, O., offer an economical equipment in its catalog BA-9.

Finishing Machines operated by electricity prove great time and labor savers for the builder and contractor. The La Kel Mfg. Co., Jenkintown, Pa., is publishing descriptive matter on its all-around floor finisher. It is small enough to enable the workmen to work around nooks and corners.

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Completely Rust-proofed

Thirty-six model homes to be erected in twenty-eight leading cities will be rust-proofed throughout with Copper, Brass and Bronze.

These model homes are being advertised nationally, with local advertising in all cities represented. Thousands of prospective home owners will visit each one of these homes.

Attention will be directed to the leaders, gutters and flashings of Anaconda Copper, which never require paint, repair or replacement; to the Anaconda Brass Pipe, which cannot rust nor clog with rust deposits; to the screens of strong, rust-proof Anaconda Bronze Wire, and to the solid brass or bronze hardware.

These homes will serve as a national demonstration of the convenience, economy and investment value of rust-proofing with Anaconda Metals.—The American Brass Company, Waterbury, Connecticut.

Where model homes are being built:

Atlanta	Fort Worth	New York
Baltimore	Houston	Omaha
Boston	Kansas City	Philadelphia
Buffalo	Los Angeles	Pittsburgh
Chicago	Louisville	Portland
Cleveland	Memphis	St. Louis
Denver	Miami	Salt Lake City
Des Moines	Minneapolis	San Francisco
Detroit	New Orleans	Seattle
		Washington

ANACONDA COPPER

BRASS ANACONDA from mine to consumer BRONZE

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Some More Useful Catalogs

Radiator Enclosures are not a new or recent development. It is only lately, however, that home owners have recognized their importance. Serious consideration is given the subject in a new catalog published by The Hart & Cooley Co., New Britain, Conn.

Housekeeping Appliances are illustrated and described in a new Graybar catalog. The issue is the first to show appliances bearing the new Graybar name in place of Western Electric. As builders know, the organization is the same it was formerly the Supply Dept. of Western Electric. Graybar Electric Co. has its offices at 100 East 42nd St., New York.

Fir Gutters for appearance and durability are well worth considering. Actual installations in residence and industrial work together with practical details are included in "'Improved' O. G. Fir Gutters," a new book of E. M. Long & Sons, Cadiz, Ohio.

Flush Valves are of great importance when considering the plumbing for the new home. A new model, manufactured by the Bridgeport Brass Co., of Bridgeport, Conn., has several new and interesting features. These are taken up in the new Instruction and Data Book on Bridgeport-Keating Flush Valves.

Casement Windows add charm to the home. They can be adapted to practically every style of architecture and in a variety of styles. The Builders' Catalog No. 2-26 contains interesting information and illustrations on the use of casement windows. This catalog is published by the Crittall Casement Window Co., Detroit, Mich.

Kohler of Kohler signifies plumbing materials and bathroom fittings. In their new Catalog F they illustrate attractively their complete line. This book is published in their plant at Kohler, Wisc.

Lumber Grading may be a source of annoyance to the builder unless he has accurate information at home. California White and Sugar Pine Mfrs. Assn., 600 Call Bldg., San Francisco, Cal., are letting "Cal" Pine, Guardian of the Grades, tell the story of White and Sugar Pine supply, production and grading. The information is consolidated in a well prepared, 52-page booklet.

Automatic Gas Water Heaters give years of satisfaction if the original investment has been well made. Many types are now obtainable of good construction and design. An examination of "The Pilot" shows what the Humphrey Co., Kalamazoo, Mich., is doing to help the builder. It is an interesting house organ.

Grade-Marked Southern Pine is the subject of a new booklet issued by the Southern Pine Assn., New Orleans, La. The title, "You, too, Can Draw the Spotlight of Attention to Your Lumber Yard," indicates the purpose of this book. It contains a number of lay-outs that the dealer may use to advantage.

Steel Conduits protect electrical wiring, making its use economical in the long run. Metal molding also finds many uses in the interest of economy. The National Metal Molding Co., 1500 Fulton Building, Pittsburgh, Pa., offers several new and interesting pieces of literature on their products.

Heating apparatus for the home requires thought and deliberation. With the many styles on the market today, the builder must consider his necessities thoroughly before selecting a furnace for the home he is building. The International Heater Co., Utica, N. Y., is anxious to help the builder make his decision, and offers interesting literature for his examination.

Brass is a building material of great value. It is used for piping, screens, shingles, etc., and has always proven its worth. The American Brass Co., Waterbury, Conn., will supply builders with literature on their complete line of brass products upon request.

Heating Specialties of every sort are thoroughly taken up in Catalog No. 22, published by the Mueller Steam Specialty Co., Inc., 502 W. 126th St., New York. The descriptions cover their steam, water, air, oil and gas specialties and the builder can obtain interesting information from this catalog.

Convertible Levels for builders' use should be of extremely sturdy type and of not too complicated mechanism. Four new folders of the Warren-Knight Co., 136 N. Twelfth St., Philadelphia, Pa., describe several of their new "Sterling" models.

Electric Soldering Irons have found a permanent place in workmen's equipment today. New features are embodied in the G-E electric line. Heavy duty types and others for light and intermittent service are all illustrated and described in their new folder, published by the General Electric Co., Bridgeport, Conn.

Sturdy Construction is the subject of an attractive booklet entitled "Experiences in Home Building," published by The Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo. The building of good homes, from the builder's and buyer's points of view, is ably handled in this brochure.

Aluminum Shingles are economical in cost and easy to supply. Their fire resistant and atmospheric corrosion qualities also figure largely in their being selected for the roof of a house. The Aluminum Co. of America, 2301 Oliver Bldg., Pittsburgh, Pa., are distributing literature on "Light House" Aluminum Shingles.

Color Penetrant for Concrete Surfaces is the subject of new literature on KeramiK. A. C. Horn Co., of Long Island City, N. Y., is offering this material as a decorative medium of unusual quality. The literature has been prepared in an attractive and comprehensive manner.

Oak Flooring possesses life-long qualities and is a worth-while sales feature. The E. L. Bruce Co., Memphis, Tenn., is distributing interesting literature showing various installations of its oak flooring.

Lumnite Cement possess high strength, therefore making it a highly desirable building material. Complete information on this cement may be obtained by addressing Technical Department, Atlas Lumnite Cement Co., 25 Broadway, New York.

Safety Treads are installed in all high class buildings. Care must be taken to select a tread that will not detract from the appearance of a stairway, and they must also be easy to install and clean. The Safety Stair Tread Co., Wooster, O., is offering new literature on its product. It is also publishing a descriptive folder on Wooster Security Nosing which has proven a satisfactory protector of the edge of the stairway in cases where linoleum, mastic, cork, etc., have been used.

Water Softeners, single-valve-control, require but little attention. The value of the water softener need not be emphasized today. Builders in many districts are finding the advantages of including them as part of the home equipment. The Monarch Engineering Co., 244 E. 1st St., Dayton, O., describes an economical type in catalog BA-7.

Steel Beams are discussed in a new booklet published by the Jones & Laughlin Steel Corp., Pittsburgh, Pa. Working tables and other data in the application of the new Junior Beam for use in all sorts of building construction are given. The new beam is known as the J & L Junior beam. It is suggested that builders investigate this new structural product.

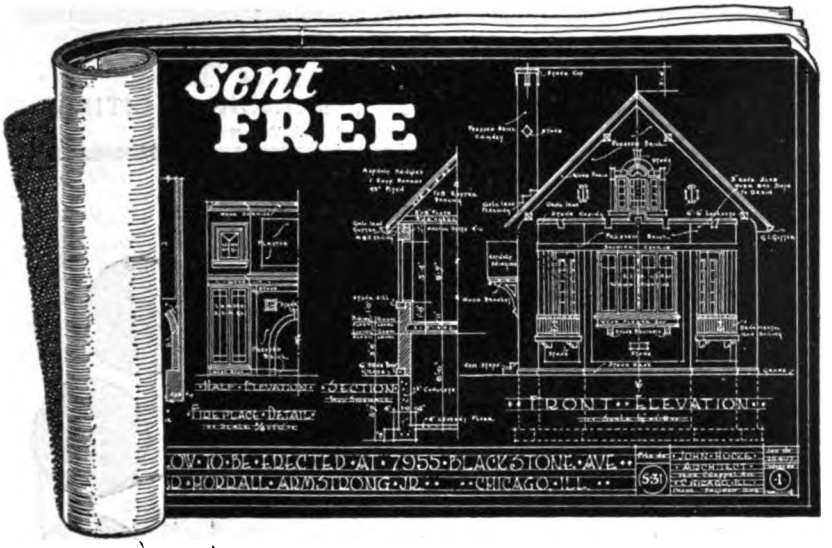
Concrete Floors and their treatment are thoroughly discussed in the new specification book of the Master Builders Co., 7016 Euclid Ave., Cleveland, Ohio. They are also publishing a new specification book covering Concrete Waterproofing. Both books are very complete and would prove valuable additions to the builders' library.

Safety Saws electrically operated save time in labor and economy. The Crowe Manufacturing Corp., 133 E. Third St., Cincinnati, O., will forward descriptive literature on their compact safety saw upon request. The machine is small enough to be easily handled in difficult places, and thoroughly protects the worker.

Power Winches are valuable on every job for hoisting material needed higher up in the building. A power winch that can be attached to almost any type of motor truck is described in literature of the King-Zeitler Co., 315 N. Ada St., Chicago, Ill.

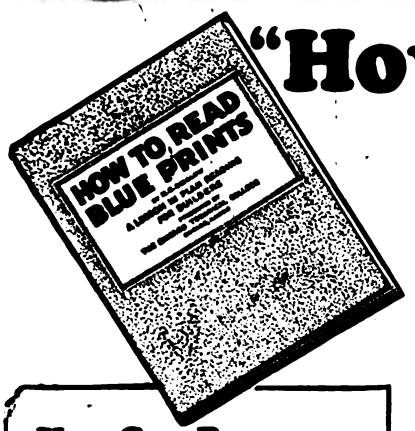
Furnaces provide the living comfort for the home during the cold weather. The Homer Furnace Co., Coldwater, Mich., is distributing a folder describing its new Homer Grand furnace which will be ready for delivery September 1st.

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Mail the coupon for Blue Print Plans and 24-page Book:

"How to Read Blue Prints"



Blue Prints are interesting to every man in the building trades. And more! They are the key to every builder's success. For until you can read and understand blue prints you will probably have to be satisfied with only a scale wage. The man who can read blue prints can become foreman, superintendent, or have a business of his own. To help every man who really wants to make money and get ahead in building, Chicago Technical School for Builders offers absolutely *free* these Blue Print Plans and a 24-page book "How to Read Blue Prints."

You Can Become a Building Expert

Plan Reading. Every man who has got very far ahead in any building trade can read blue prints. No man can expect to be a first rate foreman or superintendent until he knows what every line on a plan means and how to lay out and direct work from the architect's plans. By the Chicago Tech. Method you quickly learn to read any plan as easily as you read these words.

Estimating. Of course a man who wants to be a contractor or to hold a big job in a contracting organization must know how to figure costs of labor, material, and everything else that goes into any kind of building. The Chicago Tech. Course covers every detail of this important branch —shows you just how it is done from actual blue print plans.

Superintending. How to hire and direct men, how to keep track of every detail of construction as it goes on, how to get the work done in the least time at the lowest cost is also fully covered in the Chicago Tech. Builders' Course.

Also special courses in Architectural Drafting for builders, taught by practical men. These explained in Special Catalog "D" sent on request.

What this book is

This book is written by an expert ... a practical builder who knows the game from top to bottom. It tells how different materials are shown on blue prints, how "sections" and "elevations" are shown on plans, how to lay out a building from a plan, how to take off quantities ... and all the other interesting and important facts regarding blue prints. The book is as easy to read as your newspaper ... written in plain, everyday English that everyone can understand. "How to Read Blue Prints" will be mighty helpful to you. Aside from the real help it gives you it will show you how clear and plain and easy the Chicago Technical Builders Course is ... how quickly you can learn in your spare time .. at home .. to become a building expert.

Learn at Home to make more money

For 23 years the Chicago Tech. School for Builders has been training men to advance and make more money in building. Hundreds of successful men, superintendents and contractors, owe their success to their Chicago Tech. training. We train you by mail ... in your spare time ... at home.

Send the Coupon ... Now

With the free Blue Print Plans and our book "How to Read Blue Prints" we will send you another book ... also sent absolutely *free*. It tells all about the Chicago Tech. Builders course directed by practical building experts ... tells what others say this course has done for them ... shows pictures and gives all the facts about our method of training men ... quickly ... for the jobs that pay most money. This may be your golden opportunity. It costs you nothing to find out all about it. So send the coupon in *now* ... for the *free* plans and books.

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Visit our School for Builders, open day or evening. 500 carpenters and builders attend each year. You can get the same training *at home*, by mail. Same plans; same lessons; same instructors. The Coupon brings all facts *Free*.

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CHICAGO TECHNICAL SCHOOL FOR BUILDERS
Dept. 938, Chicago Tech. Bldg., 118 East 26th St., Chicago, Ill.

Please send me your Free Books and Blue Prints for men in the Building Trades. Send postpaid to my address below.

[Write or print name plainly]

Name.....

Address.....

City..... State.....

CHICAGO TECHNICAL SCHOOL FOR BUILDERS

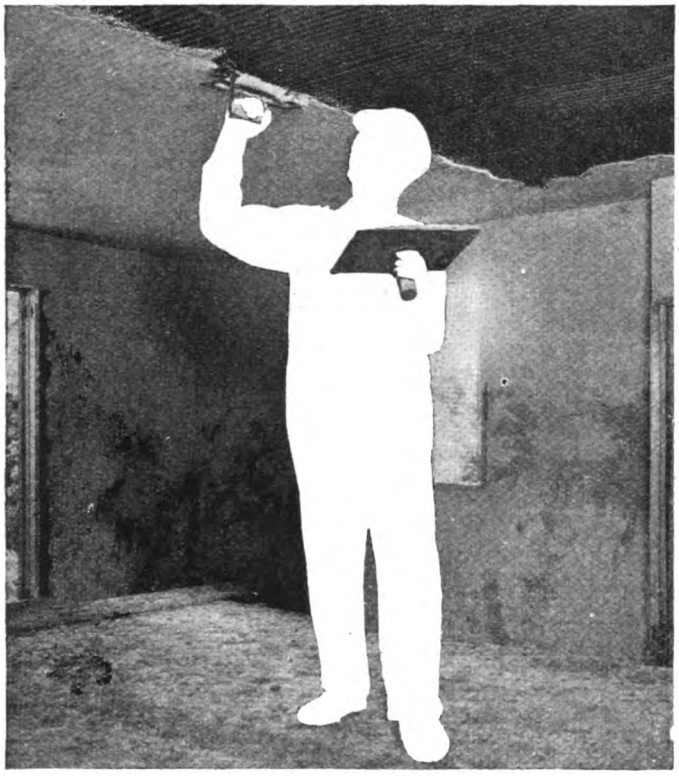
Dept. 938. Chicago Tech. Building, 118 E. 26th St., Chicago, Ill.

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TRUSCON STEEL COMPANY

YOUNGSTOWN OHIO ~ WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES

Foreign Trade Division, New York The Truscon Laboratories, Detroit, Mich The Trussed Concrete Steel Company of Canada, Ltd., Walkerville, Ont.



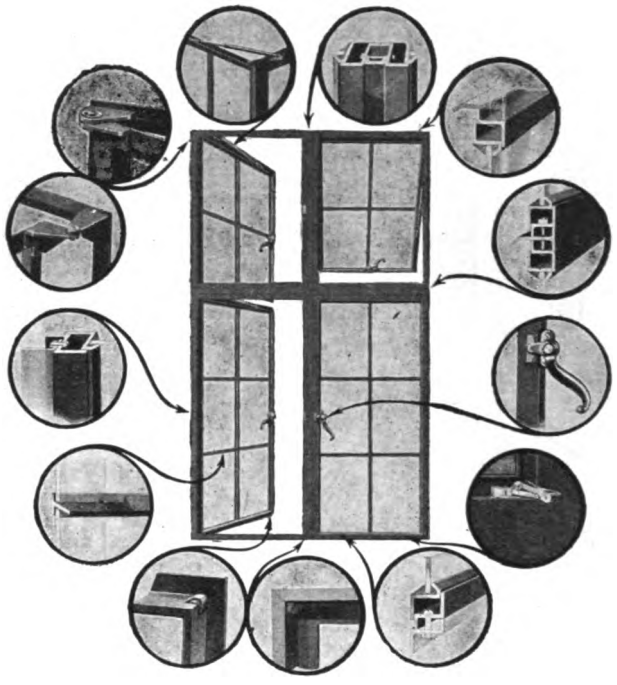
Truscon Metal Lath for Permanent Crackless Walls and Ceilings

Truscon 1-A Hy-Rib Metal Lath has consistently demonstrated its outstanding superiority. Not only is it quickly applied and quickly and easily plastered with utmost economy of plaster materials—but it assures a fire-safe, crackless job that reflects lasting credit on you. Truscon has designed this special lath to help you meet the demand for permanent, crack-proof walls and ceilings.

Further information free on request

*TRUSCON 1-A HY-RIB METAL LATH

*A complete line of Steel Buildings, Steel Windows, Metal Lath, Steel Joists, Steel Poles, Concrete Reinforcing for Buildings and Roads, Pressed Steel Specialties, Waterproofing & Technical Paints. Truscon maintains Engineering and Warehouse Organizations thruout the Country.



Beautiful Windows Practical and Economical

Truscon New Type Casements will satisfy the owners for whom you build homes better than any other windows you could use. These Casements are durable, rust-proof, fire-safe, fine-appearing and have all the practical advantages of easy operation, complete weather-tightness and ease of installation in masonry or in wooden frames. With all their superiorities Truscon New Type Casements are low in cost.

Write for illustrated literature

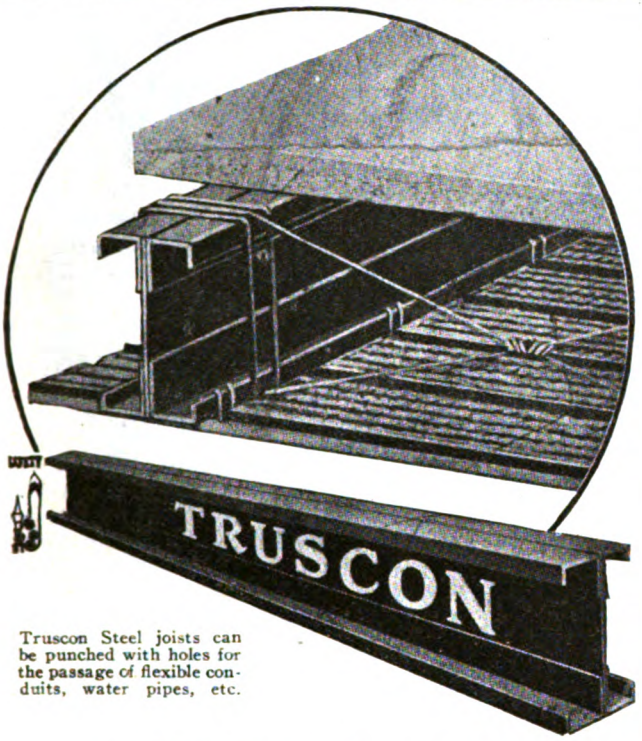
TRUSCON COPPER STEEL STANDARD CASEMENTS

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TRUSCON STEEL COMPANY

YOUNGSTOWN OHIO ~ WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES

Foreign Trade Division, New York The Truscon Laboratories, Detroit, Mich The Trussed Concrete Steel Company of Canada, Ltd., Walkerville, Ont.



Truscon Steel joists can be punched with holes for the passage of flexible conduits, water pipes, etc.

STEEL JOIST

Floor Construction

Fire safety at low cost.
The utmost permanence.
Soundproof floors.
Minimum dead weight.
Swift erection in any season.
Lighter supporting members
Most simple construction.
Easy inspection.
Elimination of form work.
Minimum field labor.
Erection of any number of floors at once.
Easy installation of plumbing and wiring.
Reduced cartage and freight costs.

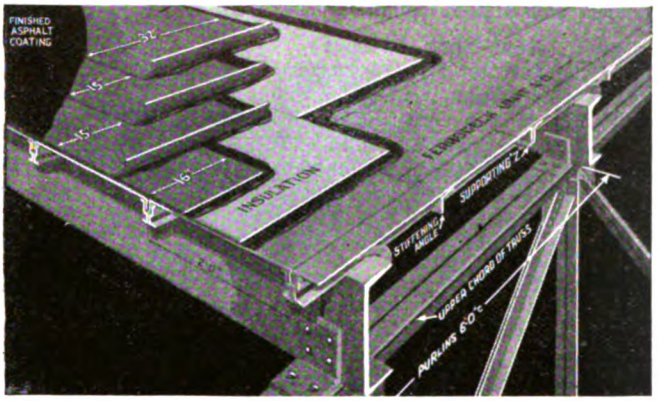
Catalog free on request

TRUSCON STEEL JOISTS

Truscon Roofs of Security

(STEELDECK ROOFS)

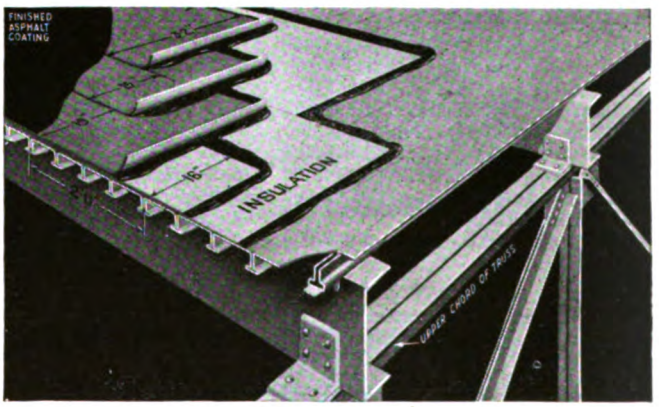
For Light Weight and Permanence



TRUSCON Ferrodeck
INSULATED & WATERPROOFED

Trademark Reg. U. S. Pat. Off.

FERRODECK roof plates are fabricated with one-inch flanges along the two edges. Substantial I-shaped sub-purlins support the roof plates every two feet, providing unusual strength and rigidity. In Truscon Ferrodeck you secure a permanent roof construction that can be quickly erected in any season of the year without delay.



TRUSCON I PLATES
INSULATED AND WATERPROOFED

TRUSCON I-plate roof construction offers in one unit both roof plate and I-shaped support members. Rapid construction, absence of nuts, bolts and rivets, fire-safety, weather-tightness, light weight and low cost recommend this type of roof deck.

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Review of Building Situation

First Seven Months 1926 10% Above Same Period 1925

IN the first seven months of this year 37 states, or 91% of the construction volume of the country, reported a total of $3,629,090,400. Compared with the same period last year, the increase was 10%, according to F. W. Dodge Corporation. The total for July construction was $518,931,900 or a little less than 5% below July 1925. The decrease from June was in about the same proportion. 36% of all construction went for residential and 21% for public works.

New York District

Of the July total ($110,389,200) 52% of all construction went for residential and 15% to commercial. The volume fell below the previous month and July last. A more favorable report was made for the first seven months of this year. The total, $1,006,368,800, represented an increase of 35% over the same period of 1925.

Mid-Atlantic District

The July figure exceeded July 1925 by 1%. Of the $48,599,300 total, 33% was represented in residential work and 21% in commercial. New construction, amounting to $72,300,300 fell below June last and July 1926. A gain of 7% over the first seven months of last year was represented in the $347,029,600 volsame for the January-July period of this year.

New England District

An increase of 6% over June was computed in the $41,160,400 for this district. Residential commanded 38%. Contemplated new work exceeded $38,000,000.

North-West District

Increases of 14% over June 1926 and 32% over July last were found in the construction volume of $11,811,500. The first seven months exceeded last year's period of 10%.

Reporting districts comprise the following states:

New England District: New England States.

New York District: New York State and Northern New Jersey.

Mid-Atlantic District: Eastern Pa., Southern N. J., Md., Dela., D. of C., Va.

Pittsburgh Dist.: Western Pa., W. Va., Ohio, Ky.

Middle West District: Ill., Ind., Iowa., Wis., Mich., Mo., Kan., Nebr., Okla.

North West District: Minn., N. and S. Dak., and Northern Mich.

South Atlantic District: N. and S. Car., Ga., Fla., Ala., Miss., Tenn., Ark., and La.

Gulf District: Texas.

Pittsburgh District

Total volume contract for July amounted to $76,224,800, of which residential contributed 27% and industrial buildings 25%. A seven months total that fell only a little below the same period of 1925 was computed to be $469,119,800.

Middle-West District

A 7% increase over June and a 54% increase over last July were represented in the $154,383,000 in contracts. New work planned exceeded July 1925 and fell slightly below June 1926. The first seven months showed a 2% gain over the January-July period 1926.

South-Atlantic District

The total, $58,812,200 exceeded June by 14% but fell below last July. During the past seven months there has been $487,605,100 worth of new construction started; this being 15% above the first seven months 1925.

Gulf District

Total contracts for July were $17,551,500. Of this residential took 42% and industrial 17%. New work reported was practically the same as June but over twice as much as last July. An increase of 32% was found in the volume of the first seven months of this year.

Record of July, 1926, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$4,148,200	$16,871,000	$9,975,800	$5,021,800	$21,173,400	$1,222,400	$6,934,000	$1,872,800	$67,219,400
Educational Buildings.	4,938,400	7,075,100	2,689,900	6,760,800	12,201,500	1,394,300	5,814,100	1,141,700	42,015,800
Hospitals, etc.....	1,265,500	3,076,900	1,329,100	276,100	1,725,700	329,000	561,900	661,300	9,225,500
Industrial Buildings...	1,197,300	3,170,000	7,623,500	18,707,500	20,740,000	1,978,000	6,287,100	3,061,000	62,764,400
Military and Naval....	150,000	7,000	15,000	12,000	10,000	12,000	.....	.....	206,000
Public Buildings.....	1,248,000	362,500	354,500	1,892,300	1,376,800	3,400	1,276,600	203,500	6,717,600
Public Works.....	8,014,000	15,097,600	7,798,700	18,562,500	35,688,900	3,397,300	20,877,400	2,011,800	111,448,200
Religious & Memorial..	2,391,300	4,209,000	1,900,000	2,351,000	3,990,500	649,500	1,738,000	753,700	17,983,000
Residential Buildings..	15,740,100	56,929,000	16,248,500	20,872,000	50,732,300	2,708,600	14,415,700	7,293,400	184,939,600
Social & Recreational..	2,067,600	3,591,100	664,300	1,768,800	6,743,900	117,000	907,400	552,300	16,412,400
Total	$41,160,400	$110,389,200	$48,599,300	$76,224,800	$154,383,000	$11,811,500	$58,812,200	$17,551,500	$518,931,900

Building Projects Contemplated, July, 1926

Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$3,814,200	$29,606,800	$8,956,800	$5,956,100	$54,839,700	$1,464,600	$9,743,300	$4,445,600	$118,827,100
Educational Buildings.	2,771,500	3,347,900	3,552,200	2,225,300	8,315,000	903,100	6,349,600	2,117,500	29,582,100
Hospitals, etc.....	736,000	1,796,500	929,500	1,185,000	2,498,000	130,000	950,000	776,000	9,001,000
Industrial Buildings...	3,527,300	2,588,000	2,182,500	7,924,500	14,496,600	139,500	2,816,500	584,000	34,258,900
Military and Naval...	550,000	55,000	500,000	12,000	837,000	.....	25,000	.....	1,979,000
Public Buildings.....	720,000	4,283,000	7,375,000	217,000	2,102,200	84,400	379,600	133,800	15,295,000
Public Works.....	7,914,500	21,221,500	8,897,700	16,137,600	39,071,300	2,059,100	28,019,300	2,334,000	125,655,000
Religious & Memorial..	1,456,300	2,392,500	1,549,000	955,000	4,237,000	626,500	2,082,000	483,700	13,782,000
Residential Buildings..	16,126,800	99,812,800	36,446,300	22,938,700	82,420,700	3,139,100	21,474,600	14,862,600	297,221,600
Social & Recreational..	1,264,500	6,482,500	1,911,300	1,431,000	12,060,000	362,500	2,831,500	828,000	27,171,300
Total	$38,881,100	$171,586,500	$72,300,300	$58,982,200	$220,877,500	$8,908,800	$74,671,400	$26,565,200	$672,773,000

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for Economical Transportation

CHEVROLET

Now—Chevrolet builds Trucks Complete with Bodies!

In addition to the world-famous dependability and low operating costs that have swept Chevrolet trucks to record-breaking heights of popularity, Chevrolet now offers truck bodies of Chevrolet design and construction to meet the public demand for a *complete* Chevrolet-built commercial unit.

As a result of this new manufacturing policy, commercial car buyers can now obtain a chassis and body, engineered as a complete unit and sold as a complete unit at a single unit price. In addition, they enjoy all the advantages of the durability, ruggedness and strength for which the Chevrolet One-ton Truck Chassis is famous and the fine appearance of quality-built bodies, whose cabs afford a new order of driver comfort and protection.

These new Chevrolet bodies offer numerous features, heretofore available only on passenger cars, such as: extra wide sedan-type doors, double-ventilating windshield, plate glass windows with Ternstedt regulators, conveniently located instrument panel, durable leather upholstery, deep comfortable cushions, and lustrous, lasting Duco finish in Biscay Green.

Renowned for sturdy design and staunch construction, these improvements still further emphasize the remarkable value which has made Chevrolet Trucks the choice of so many business men the world over.

CHEVROLET MOTOR COMPANY
DETROIT, MICHIGAN
Division of General Motors Corporation

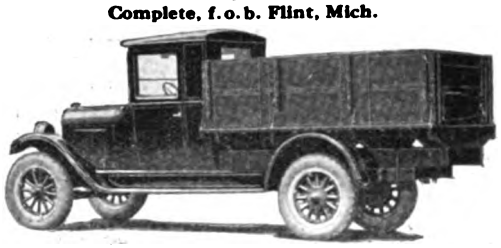
1-Ton Truck (Chassis only) $495

½-Ton Truck (Chassis Only) $375

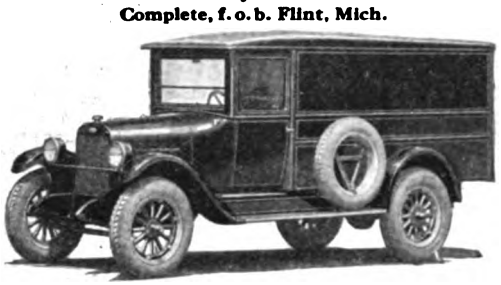
Prices, F. O. B. Flint, Mich.



1-Ton Truck Stake Body $680
Complete, f. o. b. Flint, Mich.



1-Ton Truck Grain Body $680
Complete, f. o. b. Flint, Mich.



1-Ton Truck Panel Body $755
Complete, f. o. b. Flint, Mich.



1-Ton Truck with cab only $610
f. o. b. Flint, Mich.

World's Lowest Priced Gear-shift Trucks

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country. These prices are presented primarily to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices at which the average contractor can buy, but are quoted to show him the movements of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted. Followed in conjunction with the Review of Building Situation they will prove invaluable indexes of conditions.

NEW YORK PRICES

	July 25	Aug. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring 25/32x2⅜" Face	$88.00	$85.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05 12x12', 10' to 20'.....	53.50	53.50
B. & Btr. Partitions, ⅝x3¼ in.....	58.00	58.00
B. & Btr. Ceiling, ½x3¼ in.....	44.00	44.00
B. and Better Finish, 1x4".....	68.50	68.50
No. 1 Common Boards, 1x8.....	50.00	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$62.00	$61.00
Roofers, 13/16x6 in.....	33.00	33.00
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3 in...	$66.00	$66.00
No. 1 Clear V. G. Flooring, 1x4 in.....	65.00	65.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	40.50	40.50
No. 2 Clear and Better Drop Siding, 1x6 in.....	52.00	52.00
No. 2 Clear and Better V. G. Stepping.....	88.25	88.25
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.18	$7.18
Washington Perfection Shingles, per M.....	6.68	6.68
Clear Bevel Siding, ½x6 in.....	45.00	45.00
CANADIAN SPRUCE—		
No. 1 Lath, 1½ in.....	$7.75	$7.75
Dimensions 2x4, 10' to 16'.....	36.50	36.50
HARDWOOD FLOORING—		
Clear Quartered White Oak, 13/16x2¼ in.....	$147.50	$142.50
Clear Plain White Oak, 13/16x2¼ in.....	99.00	97.50
Clear Plain Red Oak, 13/16x2¼ in.....	94.00	90.00
Clear Maple, 13/16x2¼ in.....	105.00	94.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M, f. o. b. job.....	$20.70	$20.70
FACE BRICK—		
Tapestry (delivered)	$45.00	$45.00
Caledonian Grey (delivered)	45.00	45.00
Smooth Grey (delivered)	45.00	45.00
Fiske Lock, f. o. b. factory.....	40.00	40.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Steel Bars per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.	$3.25	$3.25
1½ in.	3.15	3.25
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots over 1,000 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd., delivered	$0.19	$0.19
2.8 lb.—24 gauge, light, price per 100 sq. yd., del.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per sq. yd., deliv.	0.31	0.31
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.60	$0.60
Masons, per 50 lb. bag.....	0.50	0.50
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.00	$2.20
¾ in. Gravel (per cubic square).....	3.00	3.15
1½ in. Gravel (per cubic yard).....	3.00	3.15
SHINGLES—		
Asphalt, Single (per square).....	$6.00	$6.00
Asphalt Strip (per square).....	6.50	6.50
STAINED WOOD SHINGLES—		
10 in.Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	10.70	10.70
18 in. Perfection (per square, delivered).....	11.70	11.70
24 in. Royal (per square, delivered).....	11.70	11.70
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.13	$0.13
6 in. (cents per foot).....	0.19	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per square at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½x8½ in., per foot.....	$0.34	$0.34
8½x13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8x12x12 in., heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel	$0.60	$0.60
PLASTER BOARD—		
32x36x⅝ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton	$45.00	$45.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft.....	$0.27	$0.27

CHICAGO PRICES

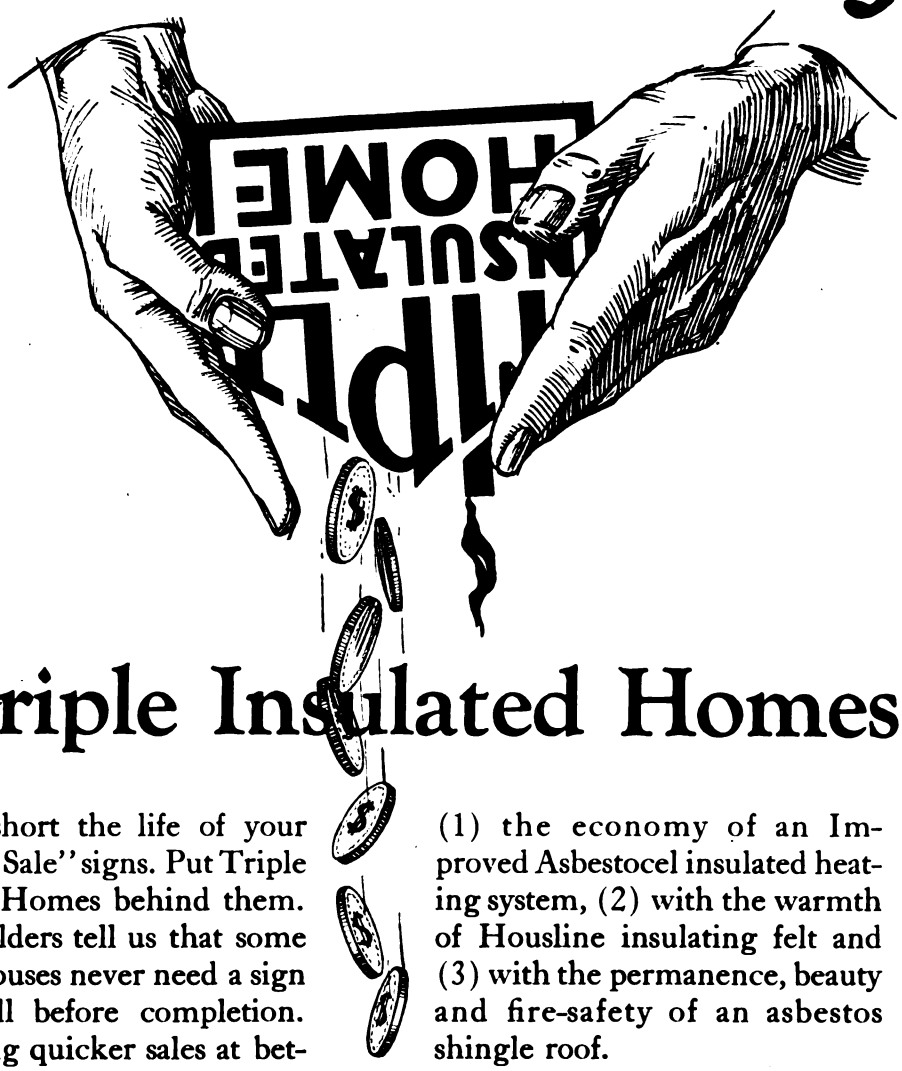
YELLOW PINE—		
Boards, 1x8, No. 1 Common.....	$42.00	$42.00
Ceiling, ⅝x4, B. and Better.....	44.00	44.00
Dimensions No. 1, 2x4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1x6, B. and Better.....	53.00	53.00
Finish, 1x4, B. and Better.....	65.00	62.00
Flooring, B. and Better, E. G., 1x4.....	80.00	80.00
Lath, 4 ft., No. 1.....	6.50	6.50
Timbers, Long Leaf No. 1, 10-20 ft., 6x12 to 12x12	56.00	56.00
HARDWOODS—		
Maple Flooring, 13/16x2¼ in., clear.....	$96.00	$96.00
Oak Flooring, ⅜x2, Cl. P, White.....	68.00	60.00
Oak Flooring, 13/16x2¼, Cl. Pl., White.....	95.00	95.00
REDWOOD—		
Bevel Siding, S1S1E, 8-20', ½x4, clear.....	$35.25	$35.25
Finish, S2S or S4S, 1x6, 8-20', clear.....	74.50	74.50
WESTERN RED CEDAR—		
Bevel Siding, ½x4, clear.....	$36.00	$36.00
Shingles, extra clear, 16 in.....	4.11	4.11
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.10	$2.10
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Common, 1x4.....	$42.24	$41.25
Dimensions, No. 1, S1S-E, Short Leaf, 2x4 in., 12-14'	29.00	29.00
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10-12',.....	84.75	85.00
Flooring, B. & Btr., E. G., 1x3.....	77.00	76.00
Flooring, B. & Btr., F. G., 1x3.....	59.00	59.00
Lath, 4 ft. No. 1.....	6.33	6.13
Timbers, No. 1, rough, short leaf, 6x12 to 12x12 in., 10 to 20 ft.	53.75	53.75
CALIFORNIA REDWOOD—		
Linish, S2S, Cl., 1x6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 4 to 20 ft.....	34.25	34.25
8 in. Colonial, ⅝ in.....	47.25	47.25
8 in. Bungalow, ¾ in.....	66.75	66.75
HARDWOODS—		
Oak Flooring, ⅝x1½ & 2 in., clear, Qtr. White..	$102.00	$102.00
Maple Flooring, 13/16x2¼ in., clear.....	90.00	90.00
RED CEDAR—		
Siding, ½x6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.01	4.01
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.15	$3.15

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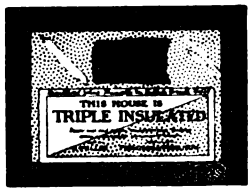
There is money



in Triple Insulated Homes

CUT short the life of your "For Sale" signs. Put Triple Insulated Homes behind them. Many builders tell us that some of these houses never need a sign—they sell before completion. They bring quicker sales at better prices, thereby saving interest charges and releasing money for new enterprises.

The reason is built-in *home-comfort*, registered and trademarked by Johns-Manville. Built-in with (1) the economy of an Improved Asbestocel insulated heating system, (2) with the warmth of Housline insulating felt and (3) with the permanence, beauty and fire-safety of an asbestos shingle roof.



This "trademark" built into the cellar wall identifies a Triple Insulated Home.

That's what customers want.

That's what you sell them in a Triple Insulated Home.

This coupon puts the complete story on your desk.

I want more information about Triple Insulated Homes

Name .....

Address .....

The Triple Insulated Home

A Johns-Manville idea

Asbestos and its allied products
INSULATION
BRAKE LININGS
ROOFINGS
PACKINGS
CEMENTS

JOHNS-MANVILLE Inc., 292 Madison Ave., at 41st St., New York City

Branches in all large cities

For Canada: CANADIAN JOHNS-MANVILLE Co., Ltd., Toronto

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WHAT'S NEW

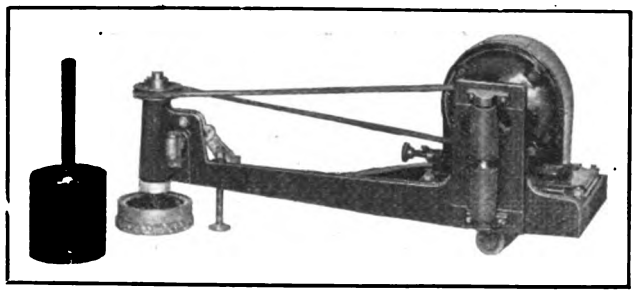


New Materials and Equipment that Keep Your Work Up to Date

All Around Finisher

WHILE the La Kel was designed primarily for finishing floors it is an all round machine. It reaches to the baseboard, cuts in corners, under radiators, and at the same time will work on stairs, taple tops, desk tops, etc. A corner that is ordinarily difficult to reach is accessible to the La Kel because of its size.

The machine is equipped with both disk and drum, these quickly interchangeable. Sandpaper is renewed on both disk and drum by patented devices. Both are padded with a fine quality of felt. Equipment has a four inch Babbitt bearing, roller which conforms to the floor, giving flexibility, and a change of rotation when desired. It is also equipped with an automatic pressure release so that as soon as the hand is removed, from the handle, the machine disengages from the work. The La Kel Mfg. Co., Jenkintown, Pa., is the manufacturer.



Automatic Light Switch

THE advantage of an automatic switch for cellar and attic lights were described in our August issue. A type manufactured by Stairway Switch Co., 235 Brookdale Ave., Glenside, Pa., that afforded a positive control was illustrated.

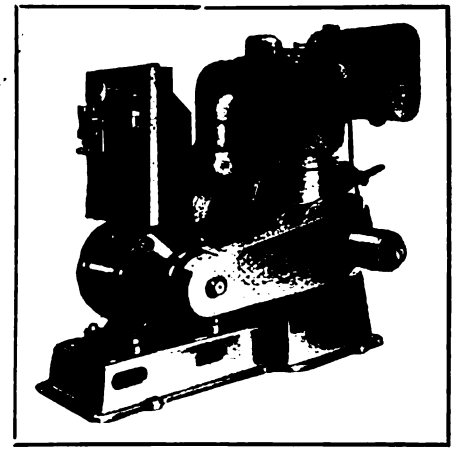
In describing the operation it was mentioned that descending to the cellar pressure on the top tread turned on the current while ascending the tread below shut it off. This was an error as can be readily seen. The actual operation is controlled by two treads, the top tread breaking the circuit and shutting off the light while the tread below turns it on. Thus one descending to the cellar throws in the circuit while one ascending automatically breaks it. In the case of an attic installation the reverse would be true.

New Power and Light Plant

TO meet the increasing demand for electrical units, 2 2½ and 3½ K. W. capacities for use in suburban homes, summer homes, hotels, etc., the Marco Light and Power Corp. of Lansing, Mich., has just placed on the market the Super-Powered Marco Plants of these capacities.

The company emphasizes the fact that the plant is super-powered by the "New-Way" engine made by the "New-Way" Motor Company. It points out that more frequently than ever an overload is put on electrical units for an hour or two and if the plant is not powered with an engine having plenty of surplus power, the result is unsatisfactory.

The roller bearing 8 H. P. "New-Way" air cooled engine has ample capacity in view of the fact that at the generator rating the engine is working with the throttle only partly opened; this means less wear and tear and longer operation. The unit is compact and light in weight and hence easily portable from place to place. Drive is by silent chain running in oil and in a dust proof case. For suburban use this unit boasts many advantages.



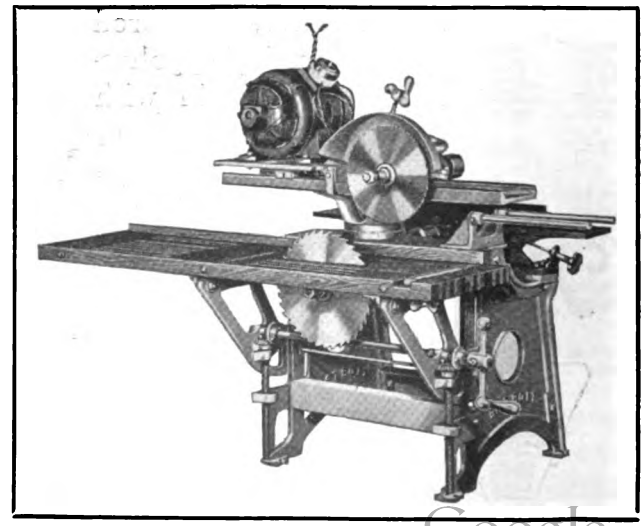
Matching Hand Work with Machine Work

HAND operation figures were carefully determined recently in comparative tests made with Master Woodworkers. Experts clocked carpenters performing the same cutting operations by hand as are being made on a power woodworker. The results will be of interest to every builder.

1,000 pieces of 2 x 12" x 16' were cut by four men operating two Master Woodworkers for 3 hrs., a total time of 52 hrs. On the same number of pieces 8 carpenters worked 9 hrs., which was a total time of 72 hrs. In figures, 20 hrs. were saved on these operations alone.

In cutting 10,000 ft. of shiplap, 45 hrs. were saved while operations on 8,000 pieces of German siding saved 61 hrs. for the builders. On the particular job where the tests were made a total saving of 198½ hrs. was reported by the judges.

This is a good example of the concrete savings that machinery is making in building today. Tests were supervised by the Master Woodworker Mfg. Co., 612 Brush St., Detroit, Mich. An illustration of a Master Woodworking Machine is shown below.



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Here They See Baths That Sell Them New Homes

Many a dream of a new home starts with a longing for beautiful and up-to-date bathrooms—a longing often inspired by "Standard" Showrooms.

At these inviting displays you will find all that is newest and best in Plumbing Fixtures and Fittings. Cordial representatives welcome visitors and answer questions.

The most up-to-date built-in baths, lavatories with "tempered water" fittings, overhead showers, quiet and dependable water closets—all are seen there.

In principal cities from coast to coast are "Standard" Showrooms, where you can make selections, bring customers, keep in touch with new styles and prices.



"Standard" Promotion or Showroom Men will gladly prepare specifications like this for your Plumbing Fixtures.

Write for "Standard" Catalogue.

Standard Sanitary Mfg. Co.

General Offices: PITTSBURGH

"Standard" PLUMBING FIXTURES

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What's New in Materials and Equipment



Sanding Machine for Corner Surfacing

FOR corner surfacing a new small sander has been developed which removes the necessity for hand scraping and sanding tables, built-in furniture, corners and interior woodwork. Evey corner is accessible to this equipment.

The illustration shows actual operation and construction. It consists of a high speed sanding drum connected by a flexible drive shaft to an electric motor. The motor is supported on a base which in turn is mounted on rollers thus enabling the power machine to be pulled around easily from place to place.

Aside from the elimination of impractical hand labor, the finish made by the portable sander is more uniform and smooth. Manufacturer is the National Sanding Machine Co., 543 Vedder St., Chicago.

Flush Plates of New Composition

FLUSH plates designed to meet the need for a product that harmonizes with any interior decorating scheme and to provide for durability and non-tarnishable character are being made by the Ivori-Craft Corporation, 8 Summit Avenue, Newark, N. J.

Ivori-Craft flush plates are non-inflammable, and show extremely high insulating qualities, thus making them an excellent non-conductor. They are non-fragile as well and are built to withstand a great deal of stress and strain.

They may be obtained in 28 standard colors and in 50 special shades and varieties of colors. Thus it is possible to obtain plates that will harmonize exactly with any particular interior decorative scheme. In addition, a variety of special shapes and designs may be obtained.

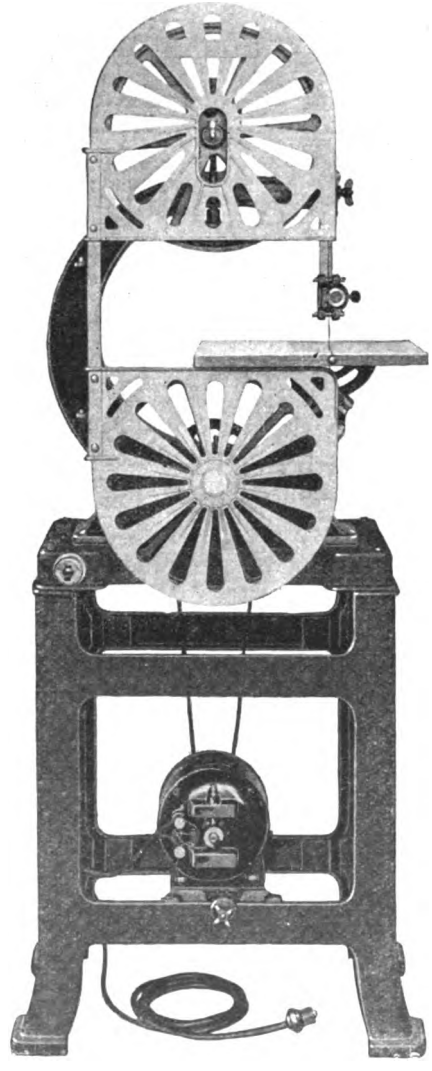
Builders and architects who are interested in adding these special touches to the home will find that Ivori-Craft emphasizes sales advantages. In addition to flush plates, Ivori-Craft push plates are obtainable. In every case the guarantee of the company is back of its products.

A color card showing actual samples in various shades and colors is distributed upon request to interested persons.

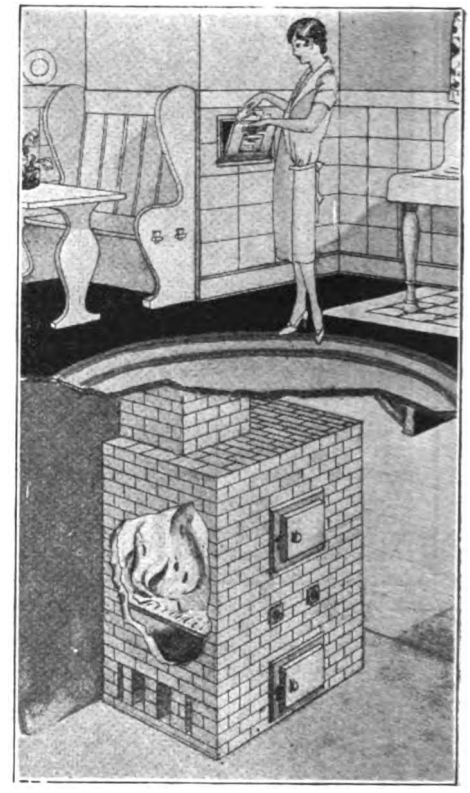
Saw With Floor Stand Base

THE saw illustrated is a complete portable unit that requires no bench or stand. It is easily moved about to the work and is of convenient height for efficient use.

Motor is mounted on a slide in the base and has a flexible belt drive protecting the motor from shock. This slide can be adjusted for tightening the belt.



The motor, of any desired type, is controlled by a switch conveniently placed in front of stand. Equipment includes 10 ft. of heavy motor cord and armoured plug. Floor stand base is constructed from cast iron and structural steel. Specifications include a height of 62 in. over all, floor space 15 x 25 in., weight, 200 lbs., motor 1/3 h. p. or ½ h. p. as ordered. Manufacturers are Heston & Anderson, Fairfield, Iowa.



Portable and Built-In Incinerator

FOUR sizes of Incinerites are manufactured so that both old and new buildings may be equipped to advantage. In the portable type refuse is burnt by gas, while in the built-in type no fuel is required other than that supplied by the waste paper and other refuse.

Incinerite can be installed in apartments and other buildings and the plant in the basement receives all the refuse from every floor. When it is nearly full, the waste paper is lighted and all decomposed matter is burnt with the exception of incombustibles such as bottles and cans, which are removed with the ashes. Auxiliary drafts assure complete combustion. The open brick work supplies drafts that pass over and through the refuse.

The advantages of garbage incinerators as a substitute for the unsanitary garbage pail or can hardly need be discussed. In some localities ordinances have been passed requiring their use for apartment installation. In any event, they are a profitable investment for builder and owner. Manufacturer is E. C. Stearns & Co., Syracuse, N. Y.

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Selects Winthrops

for homes he *plans, builds,* and *finances*

Howard A. Ullrich of Maywood, Illinois, specializes in homes in the western suburbs of Chicago—homes ranging from $20,000 to $40,000. He plans and builds them and finances their purchase by the owners.

For these homes Mr. Ullrich selects Winthrops. As an architect he knows that, with the range of beautiful non-fading colors of Winthrops, he can secure the effect he wants. He can harmonize the roof with any style of architecture. He can fit the house into any surroundings.

As a builder he knows Winthrops lay easily, rapidly and smoothly. As a financial man he knows the safety of his loans to purchasers of homes with permanent roofs—roofs proof against sparks, roofs that do not rot, crack, split, rust—roofs of low upkeep and long life.

The home above, in River Forest, Illinois, is roofed with the Stonefield Blend of Winthrop Tapered Asphalt Shingles—a blend of heather blue, heather green and purple.

There can be no monotony about colors as blended here, and in addition there are the shadow lines cast by the thick butts of Winthrops, which are built up of extra coats of everlasting asphalt on both sides the heavy felt cores.

For other houses, other colors. Twelve in all. In blends or solid colors. All permanent, non-fading crushed slate.

Samples of All Colors Free

Most lumber dealers sell Winthrops, but you should have a complete set of full size shingles to show your prospects. Write, on your letterhead, today for the set. They are free. They are convincing.

BECKMAN-DAWSON ROOFING COMPANY
1030 Brooks Building, 223 W. Jackson Boulevard, Chicago, Ill.
Also Manufactured by
LOCKPORT PAPER CO., Lockport, New York

-the Big Butt Shingle

Winthrop
Tapered Asphalt Shingles

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What's New in Materials and Equipment

Exhausting Ventilator

DESIGNED primarily for schools and public buildings of all kinds, theatres and industrial buildings, the new Lauerman Syphonage Ventilator is meeting with every type and condition required of a ventilator. It is scientific in design and consequently storm proof, weatherproof and fireproof.

An experimental period of considerable length resulted in suction chambers of



unique and practical design. Passing air is conducted over the exhaust pipe, creating a vacuum and obtaining strong exhaust. Maker: Lauerman Ventilator Co., 239 E. Tompkins St., Galesburg, Ill.

To Protect Foundation Work

A PRACTICAL method of protecting unfinished foundations from the weather is shown in the illustration. Here Sisalkraft has been spread over foundation and fastened down roughly.



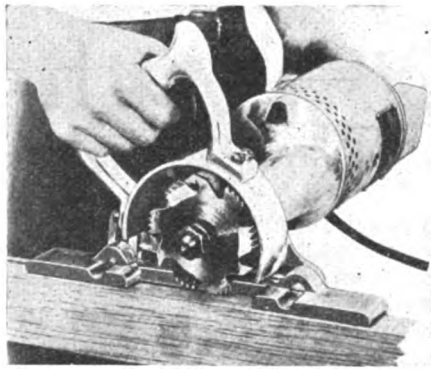
When the building paper has served its purpose, it may still be used for sheathing on the same site and job.

The paper is waterproof and difficult to tear, consequently it stands up well under rough handling. Manufacturer is the American Reinforced Paper Co., Attleboro, Mass.

Lightweight Portable Electric Tool

THIS Fall and Winter there will be a bigger business than ever in metal weatherstrips. This is the opinion of the Wodack Electric Tool Corp., 23 South Jefferson St., Chicago, Ill., who are introducing the Wodack Groover. It is particularly adapted for weatherstrip work because of its lightweight and ability to groove at approximately five times the speed of a hand tool.

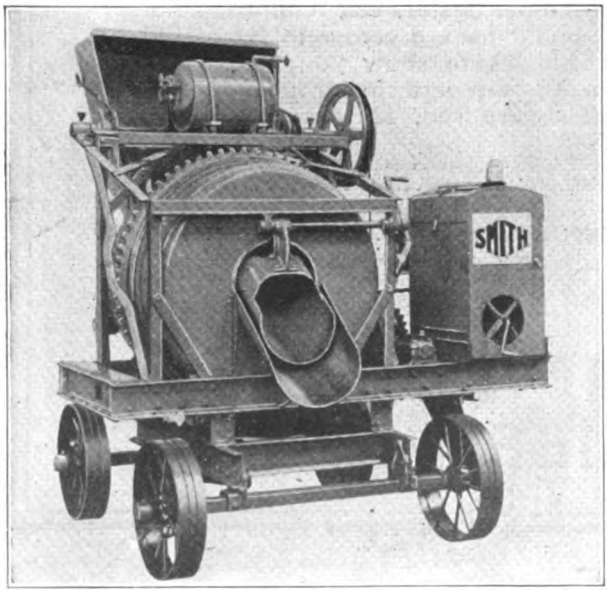
The worker simply attaches the size of tooth grooving saw required, then adjusting it for depth and location of groove, attaches plug to light socket and starts in to work. The Wodack Universal Motor runs on DC and AC 110-volt. It can also be had on 220-volt if desired.

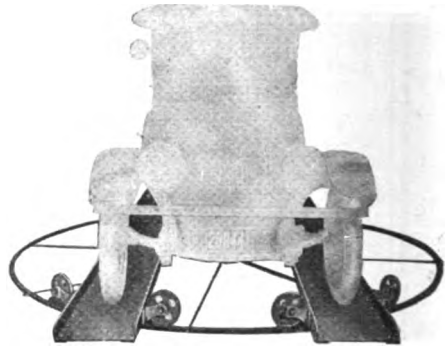


Mixer on Crosswise Truck

BUILDERS will be interested in learning that the 7-S Mixer of the T. L. Smith Co., Milwaukee, Wis., can now be furnished on crosswise trucks for end discharge like a paver. Where the job is strung out, this arrangement is ideal. A large daily output is assured, because time and handling are saved by delivering mixed concrete directly to the forms. Standard wheels and axles are removed intact and installed in the crosswire frame. The standard frame is arranged to be bolted to the new unit. A hauling stub, telescoping under the skip, is used in place of the standard.

A stationary spout permits ready placing of the concrete directly into the forms. At 8 ft. distributing spout with a swing of half a circle can be furnished as an extra. A distributing spout with two discharge points allows accurate placing of the concrete wherever it is needed.





A Pitless Automobile Turntable

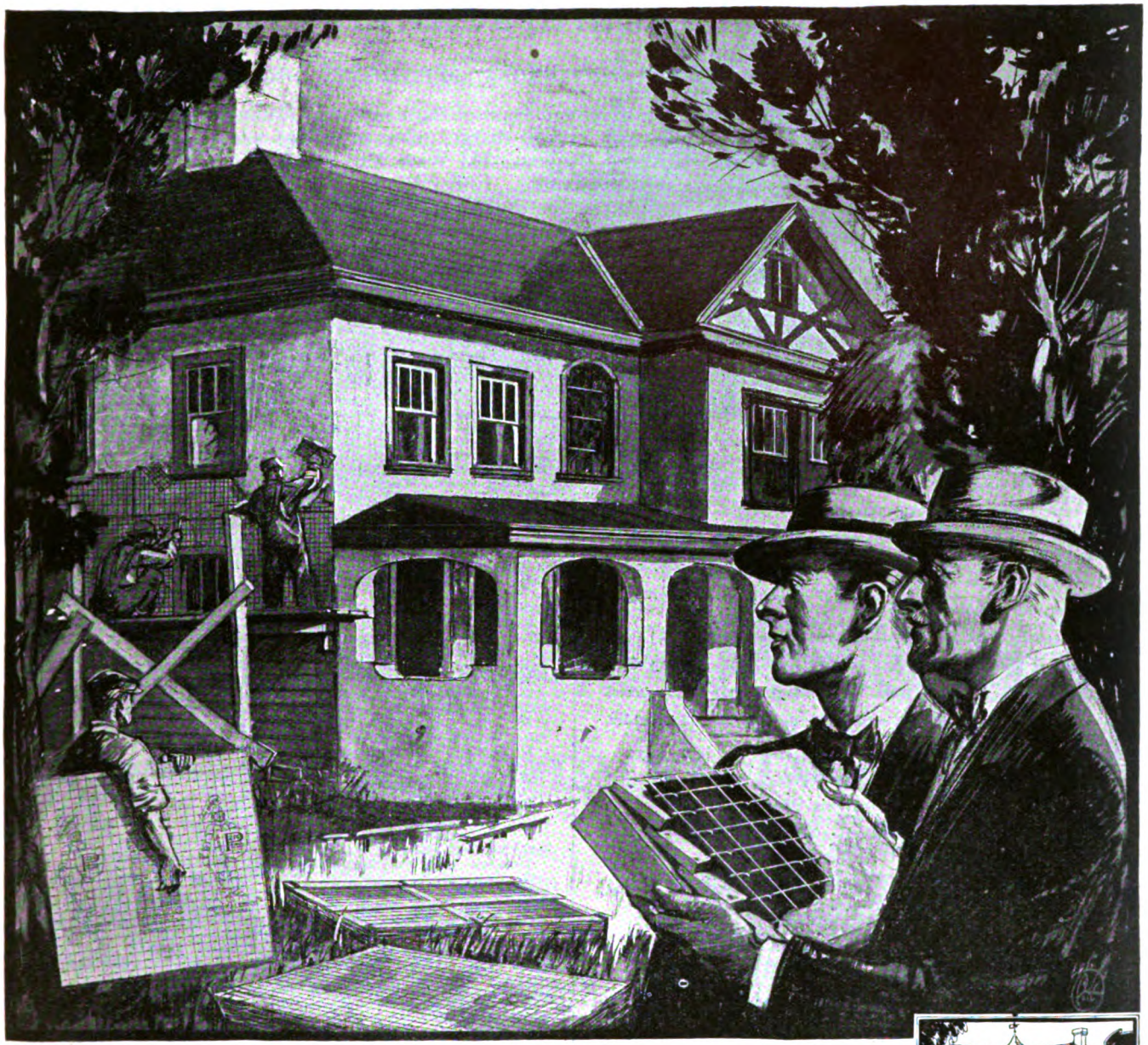
A CIRCULAR steel track 1½ in. high surrounds a center plate to which it is attached and held rigid by 8 radius rods. This is a condensed description of a unique automobile turntable of great practicability to the home owner.

Since working parts of model above are not covered by a solid platform but merely have two run ways to receive the car, a minimum of steel is used, and therefore a minimum of weight and a minimum of expense result. The turntable revolves on ball bearings and requires little effort to turn. The Canton Foundry & Machine Co., 203 East 15th St., New York City, is the manufacturer.

A second type is made, as shown, in front of a garage. It requires no elaborate or expensive preparation for installing. Set down anywhere on a solid base, it is ready to turn a car. It may also be installed with track equipment imbedded in the concrete floor. This is easily done in a new garage when the concrete is soft.



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"Yes—Your Neighbor is Overcoating His House"

"He's making a new house of his old one, improving its appearance, increasing its market value, giving it new character, new life.

"Roberts dickered with me about building a new home for some time. His wife wanted a modern Stucco house. He told me he was losing money living in that frame house; his fuel bills were out of reason, couldn't heat the place right in winter—and it was uncomfortably hot in summer.

"Furthermore, he said he had enough of laying out money year after year for appearance upkeep.

"Then he heard about Reinforced Stucco Overcoating."

* * *

The big advantage of Overcoating, from the Contractors standpoint, is that he can keep busy, profitably, during the fall and winter, in bad weather, and during business lulls.

Home owners would rather Overcoat than repair or repaint their frame houses, when the costs are laid out before them, and the permanent advantages in Overcoating shown to them.

Overcoating brings the Contractor profits in many ways. As a general thing, when the Frame House owner finds out how little Reinforced Stucco Overcoating really costs, he immediately begins to add many other improvements around his home—all of which brings more business and more profit for the Contractor.

Write us (or use the coupon) for the complete details of our 1926-1927 Overcoat Plan for increasing the Contractors business and profits.



These two sketches show the old and the new—how the old frame house looked and the new beauty which Overcoating gave it.

NATIONAL STEEL FABRIC

NATIONAL STEEL FABRIC COMPANY · PITTSBURGH, PA.

WORLD'S LARGEST MANUFACTURERS OF WELDED STEEL FABRIC

NATIONAL STEEL FABRIC COMPANY
707 Union Trust Building
Pittsburgh, Pa.

Wherein does the Contractor benefit by your 1926-1927 Overcoat Plan?

Name .....

Address .....

City ..... State .....

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 243 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(*See also Alphabetical Index, page 226*)

ACCOUNTING MACHINES—See Bookkeeping Machines

ACOUSTICS

Celotex Co., 645 N. Michigan Ave., Chicago, Ill.

2664. *Acousti-Celotex.* Details and and specifications. Deal with new sound-deadening board.

Insulite Co., Builders Exchange Building, Minneapolis, Minn.

6824. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.

3559. *Sound Deadening and Insulating Materials.* Booklet. Illus.

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ASBESTOS PRODUCTS—See also Roofing

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.

2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.

2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.

2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.

2145. *Eternit Asbestos Lumber.* 12 pp. folder.

2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.

2147. *Instructions for Applying Eternit Asbestos Shingles.*

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus.

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.

5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Descrices a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631. *Kenney Needle Shower.* Catalog "A." Illus. Concerns several types of body showers.

Kohler Co., Kohler, Wisc.

6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.

Republic Brass Co., Cleveland, Ohio.

6661. *Republic Two Way Service Control.* Folder. Describes control lever.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.

5954. *The Transformation.* Describes how hall-end is converted into "Standard Five Foot Square Bathroom."

5955. *"Standard" Pembroke Baths.* Folder in colors. Shows adaptability of built-in bath.

Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.

5991. *General Catalog.* 10 cents.

White-Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich.

New York Office and Display Room, Room 409, Columbia Bank Building, 507-5th Ave. Mr. Harry Parker in charge.

5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.

5342. *White-Steel Shower Curtain Poles.*

5343. *White-Steel Line.* Towel bars, tumbler and soap dish holders.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

7071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Brown Bed Co., Kansas City, Mo.

7011. *All Steel Disappearing Bed.* Designed to prevent collapsing.

Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.

BENCH GRINDERS—See Grinding Machinery

BILLING MACHINES—See Bookkeeping Machines

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.

2542. *Breezo Booklet.* Form 2320. Describes fan unit for domestic use. Installed in kitchen window.

2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.

BLUE PRINT—See also Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line of drafting materials, surveying instruments, rules, etc.

BOILERS—See also Heating Equipment; Water Heating Systems

Riverside Boiler Works, Inc., 491 Main St., Cambridge, Mass.

5891. *Range Boilers.* Describes galvanized and copper types.

5892. *Storage Systems.* Describes automatic, gas-fired types.

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Walker Co., Frank B., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BOOKKEEPING MACHINES

Elliott-Fisher Co., 342 Madison Ave., New York, N. Y.

6931. *A Machine Which Fits Your Business.* Booklet. Illus. Universal Bookkeeping machine.

6932. *Why.* Booklet. Illus. Basis of bookkeeping by machinery.

6933. *New Elliott-Fisher Automatic Electric.*

6934. *Machine Written Records.* 16 pp. Illus.

6935. *Pay Roll.* 16 pp. Illus. Machine operation.

6936. *The High Cost of Cost Accounting.*

BRACKETS—ROOFING, ETC.

Elite Mfg. Co., Ashland, O.

3011. *Scaffold Brackets.* Catalog. Deals with application.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding*, giving prices.

BRANDING IRON

Everhot Mfg. Co., Maywood, Ill.

3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 17 West 46th St., New York; also Watsontown, Pa.

5691. *Fisklock and other Face Brick.* Appeals to builders from popularity angle.

Hanley Co., 2 Main St., Bradford, Pa.

5961. *Bradford Reds.* Four types of smooth and rough texture face brick.

BRIDGING—See also Metals and Metal Specialties

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.

6841. *Tru-Tye Steel Bridging.* Steel tension bridging holding without nails.

General Fireproofing Co., Youngstown, O.

32213 *GF Metal Building Specialties.* Folder. A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDERS' WOODWORK—See Lumber and Woodwork

BUILDING BLOCKS

Cinder Concrete Corp. (formerly Crozier-Straub, Inc.), 120 W. 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports

National Building Units Corp., 1600 Arch St., Philadelphia.

7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

BUILDING CONSTRUCTION

Copper & Brass Research Assn., 25 Broadway, New York.

5941. *Literature.* Booklets on copper, brass and bronze.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus.

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Common Brick has been selected wherever brick is used—in all the houses of the National Demonstration Model Homes series. The house shown here is Plan No. 309X—a six room Georgian house with Common Brick walls.

Easy to Sell—this Model Home of Common Brick

Easy to sell—because the use of Common Brick gives real brick construction at lowest cost. A Common Brick house can be attractively—yet profitably—priced.

Easy to sell—because Common Brick builds walls of real beauty. Send for the books that tell how.

Easy to sell—because brick construction has more "talking points" than any other kind. Permanence, comfort, low upkeep and painting cost, fire-safety—all these arguments help sell the brick house.

Especially *now*—when the Common Brick advertising campaign in the *Saturday Evening Post*, *House Beautiful*, and other magazines is telling people why they should find out "What's in the Walls"—before they buy. Watch for this advertising. It will be a real selling help to the builder who uses Common Brick.

THE COMMON BRICK MANUFACTURERS' ASSOCIATION OF AMERICA

2133 Guarantee Title Building
Cleveland, Ohio

Ask us to put you on our *"Builders' Register"*—so that we can refer local brick house prospects to you. This Association refers thousands of such inquiries to builders each year.

AT YOUR SERVICE

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Chicago.....614 Chamber of Commerce Bldg.
Denver.....1735 Stout St.
Detroit, Mich.....400 U. S. Mortgage Trust Bldg.
Hartford, Conn.....226 Pearl St.
Los Angeles.....342 Douglas Bldg.
New York City..1710 Grand Central Terminal Bldg.
Norfolk, Va.....112 West Plume St.
Philadelphia.....303 City Centre Bldg.
Portland, Ore.....906 Lewis Bldg.
Salt Lake City.....301 Atlas Block
San Francisco.....932 Monadnock Bldg.
Seattle, Wash.....913 Arctic Bldg.
Springfield, Mass.....301 Tarbell-Watters Bldg.

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Common BRICK

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- ☐ "The Home You Can Afford"—62 homes (10c)
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- ☐ "Skintled Brickwork"—(15c)
- ☐ "Farm Homes of Brick"—(5c)
- ☐ "Brick Silos"—(10c)
- ☐ "Multiple Dwellings of Brick"—(10c)
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Check above and send for the books you need to use brick with economy.

Write plainly your name and address here.

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Selected List of Manufacturers' Literature

(Continued from page 176)

Home Owners' Service Institute, Inc., 441 Lexington Ave., New York.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price 10 cents.
Lamella Roof Syndicate, Inc., 45 W. 45th St., New York, N. Y.
6501. *Lamella Roofs.* Literature. Describes system of building with wood units spans up to 150 ft.
Mortarless Tile Machine Co., 21-22 Carrillo Bldg., Santa Barbara, Calif.
6531. *Build With Interlocking Concrete Tile.* Describes machine. gives details and typical installation. 12 pp. Illus.
Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.
4792. *Truscon Standard Buildings.* Form D-398. 44 pp.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.
4794. *Modern School Construction.* Form D-395. 16 pp.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

BUILDING PAPER
American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper
Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.
Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature. Describes insulating and lasting properties.

BUILT-IN FEATURES
Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on laundry tubs.
Berriman Biltin Wardrob Co., Tribune Tower Bldg., Chicago.
6981. *Berriman Biltin Wardrob.* Built of gum, walnut finished, designed to take place of clothes closet.
Brown Bed Co., Kansas City, Mo.
7011. *All Steel Disappearing Bed.*
Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*
Dudfield Mfg. Co., 120 W. Kansas St., Liberty, Mo.
6511. *All-Metal Chalk Tray.* Installation includes eraser cleaner.
Fain Mfg. Co., National Bank of Commerce Bldg., Norfolk, Va.
6401. *Fold-Away Breakfast Nook.* Describes Breakfast Room resting in 4 in. partition. Model F. Other built-in features.
Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.
Kenny-Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.
Kolstad Mail Box Co., 402 W. 1st St., Duluth, Minn.
6801. *Kolstad Mail Box.* Types for various constructions and thicknesses of wall.
6802. *Kolstad Mail Chutes.* Telescopes to fit any thickness of wall.
Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.
Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.
Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Parker All-Steel Kitchen Cabinet* and *Ranges.*
Penn-Gregg Mfg. Co., 809 University Ave, St. Paul, Minn.
6251. *Mailo Box.* Booklet. Includes prices on built-in mail box.
Richmond Cabinet Co., Richmond, Ind.
3941. *Five Piece Kitchen Assembly.* A compact unit finished in white or gray.
Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. 12-*page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.
White-Steel Sanitary Furniture Co., Grand Rapids, Mich.
New York Office and Display Room, Room 409, Columbia Bank Building, 507-5th Ave. Mr Harry Parker in charge.
5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.
5342. *White-Steel Shower Curtain Poles.*
5353. *White-Steel Line.* Towel Bars, tumbler and soap dish holders, glass shelves, robe and razor strop hooks, grab-rails, etc.

CABINETS—See Built-In Features; also Bathroom Fixtures
CALCIUM CHLORIDE—See Concrete Process
CANVASS—See Roofing Materials
CARBURETORS—See Trucks, Motor Supplies
CARPENTERS' TOOLS—See Tools, Edge, also Tools
CASEMENTS—See Windows, also Windows, Metal
CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings, Columns* (Iron and Steel).

CAULKING AND GLAZING COMPOUNDS
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Asphalt putty.
Bird & Son, East Walpole, Mass.
2452 *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.
A. C. Horn Co., Long Island City, N. Y.
6592. *Vulcalex Folder.*
6593. *Hornglaze.*
Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.

CEILINGS
Lloyd, W. H. S., 105 W. 40th St., New York.
5742. *Anaglypta.* Booklet. Illus. Deals with line of friezes used as substitute for plaster relief.

CEILINGS, METAL—See Metals, etc.
CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland
Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical dealing with various phases of the industry.
2063. *Alpha Service Sheets.* Instructions on concrete construction.
Atlas Portland Cement Co., 25 Broadway, New York.
2311. *The Atlas Book on Concrete Construction.* Text book, Illus.
2312. *Concrete on the Farm.* Illus. Instructions, plans and pictures regarding farm concrete construction.
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar,* a building mortar.
Lehigh Portland Cement Co., Allentown, Pa.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
3774. 28 *Better Homes.* Describes winning designs in Lehigh Cement Small House Competition
Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.
Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Elastic Boiler cement.
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Aerite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT COLORS
C. K. Williams & Co., Easton, Pa.
6601. *Anchor Brand Cement and Mortar Colors.*

CEMENT PAINT—See Paint, Cement

CEMENT, TILE
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.

CEMENT TOOLS
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.*
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHALK TRAY
Dudfield Mfg. Co., 120 W. Kansas St., Liberty, Mo.
6511. *All-Metal Chalk Tray.* Installation includes eraser cleaner

CHIMNEY CAPS—See Ventilators, also Metals, etc.
CINDER BLOCKS—See Building Blocks
CIRCULAR SAWS—See Saws

CLAMPS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.
Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

CLOTH WALL COVERING—See Wall Covering

COAL CHUTES
H. W. Covert Co., 137 E. 46th St., New York.
6322. *Covert Coal Chutes.* Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.
Kewanee Mfg. Co., 105 No. Tremont St., Kewanee, Ill.
5971. *Kewanee Coal Chutes.* Describes copper steel types with plain or glass doors.
Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools
COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors

COLUMN BASES
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus.

COLUMN AND BEAM COVERING
United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*

COLUMNS, WOOD
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.

COMBINATION DOOR—See Doors
COMBINATION WOODWORKERS—See Woodworking Machinery

CONCRETE ACCESSORIES
Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples of standard and junior clips for anchoring wood floors to concrete
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.

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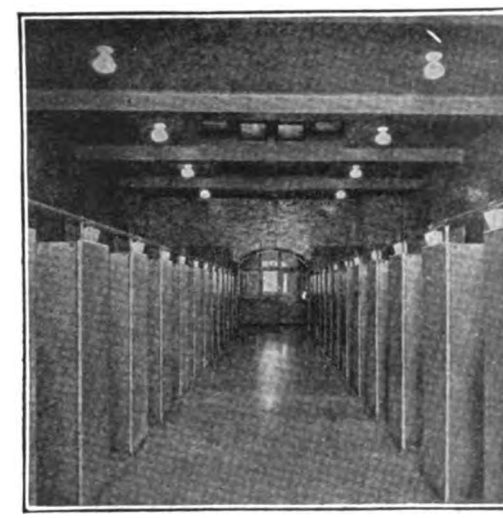
Permanently Economical

Shower Compartments and Dressing Rooms—and other sanitary work—of Alberene Stone represent economy of the highest order. Their first cost is moderate, and there are no after-costs upon them—because of their time-resisting qualities both of material and construction.

Alberene Stone is non-absorbent, non-staining, non-chipping, non-flaking—acid-, alkali-, heat-, and cold-resistant. It is assembled with tongue-and-groove and bolted joints with waterproof cement that make an absolutely impervious sanitary structure. There need be no exposed metal whatever.

Have you the Catalog, with Specification and Detail Sheets on Alberene Stone Specialties?

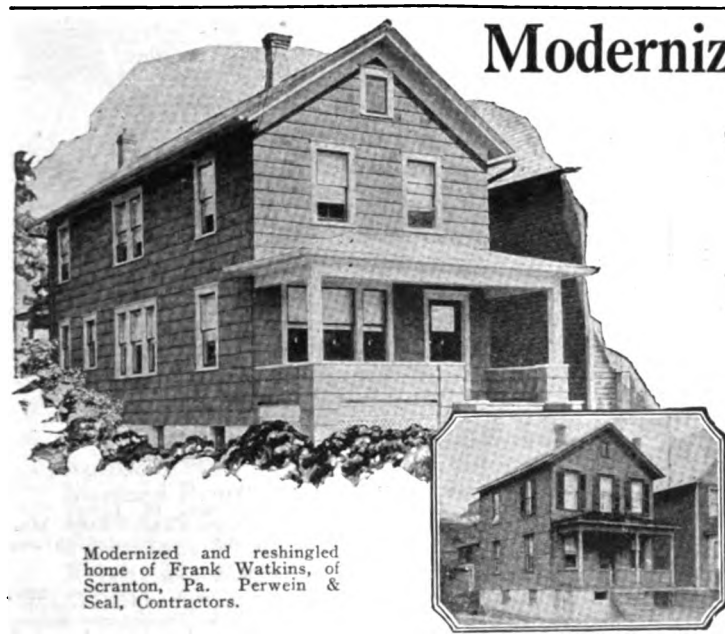
ALBERENE STONE COMPANY
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Baltimore Boston Buffalo Chicago Cleveland Newark
Philadelphia Pittsburgh Richmond St. Louis



MUNICIPAL BATHS, CHICAGO, ILL.
ALBERENE STONE THROUGHOUT

ALBERENE STONE

QUARRIED FOR OVER 40 YEARS
FOR SANITARY WORK, STAIR TREADS AND LANDINGS
STANDARD ALSO FOR LABORATORY EQUIPMENT ELECTRICAL CONSTRUCTION, LAUNDRY TUBS AND SINKS



Modernized and reshingled home of Frank Watkins, of Scranton, Pa. Perwein & Seal, Contractors.

Modernize Old Homes Quickly —*Double Their Value*

The value of old houses is being doubled and tripled by slight remodeling and then re-shingling with WEATHERBEST Stained Shingles.

WEATHERBEST Stained Shingles can be laid right over old wood siding, improving appearances, making the house warmer in winter and cooler in summer. The cost is little, if any, more than repairing and repainting of old side-walls. A new WEATHERBEST Stained Shingle roof gives a refreshing color value to the house that makes it more salable and gives another lifetime of service.

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☐ Color Samples.

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Selected List of Manufacturers' Literature

(Continued from page 178)

4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.

Parker-Kalon Corp., 356 West 13th St., New York, N. Y.

6631. *Parker-Kalon Hardened Masonry Nails.* For use in brick, mortar concrete, etc.

United States Gypsum Co., 205 W. Monroe St., Chicago.

4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.

5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms.

Wickwire Spencer Steel Corp., Worcester, Mass.

5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

C. K. Williams & Co., 636 N. 13th St., Easton, Pa.

6601. *Anchor Brand Water Colors and Cement Colors.* Folder.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.

2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.

2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.

2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 68 pp. Illus.

Chain Belt Co., Milwaukee, Wis.

2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.
2683. *More Yards Per Day.* Catalog. 38 pp. Describes Rex high speed idea.
2684. *The New Rex* 14-S. 18 pp. Catalog No. 136. Apply Rex high speed idea to larger building mixers.

Concrete Equipment Co., Holland, Mich.

2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

Construction Machinery Co., Waterloo, Iowa.

2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.

2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

J. B. Foote Foundry Co., 20 Front St., Fredericktown, Ohio.

3111. *Panama Line.* Catalog. Includes Panama concrete block machinery, concrete mixers, sill and cap machines, etc.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.

3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.

3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.

Knickerbocker Co., 550 Liberty St., Jackson, Mich.

6131. *Knickerbocker Catalog.* Describes Knickerbocker line of Quality Equipment for Builders. State desired machine.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.

3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.

Lansing Co., Lansing, Mich.

5611. *Lansing Equipment for Contractors.* Catalog. Illus.

Mortarless Tile Machine Co., 21-22 Carrillo Bldg., Santa Barbara, Calif.

6531. *Build With Interlocking Concrete Tile.* Describe machine, gives details and typical installation. 12 pp. Illus.

Raber & Lang Mfg. Co., 829 Mill St., Kendallville, Ind.

6181. *Crescent Concrete Machinery.* Catalogs. Include description of titling mixers, block tampers, sewer pipe and tile moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.

4281. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.

4391. *Remmel Catalog,* 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.

4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets,* Folders, etc. Illus.

Smith Co., T. L., Milwaukee, Wisc.

4591. *Smith Concrete Mixers and Pavers.* Catalog No. 500. Illus. 64 pp.
4592. *Smith 27 E Six Bag Paver.* Catalog 409-F. 40 pp. Illus.
4594. *Smith Glass Batch Mixers.* Catalog 404-A. 16 pp. Illus.
4595. *Smith Rallway Pavers.* Bulletin 1015. 8 pp. Illus.

Standard Scale & Supply Corp., Pittsburgh, Pa.

6351. *Standard Mixer Booklet.* Deals with complete line of "Standard concrete machinery.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.

4681. *Catalog 25.* Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.

5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.

5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.

6861. *Anti-Hydro Formula.* For hardening, waterproofing, and dampproofing concrete, stucco and cement mortar.

General Fireproofing Co., Youngstown, O.

3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus.

A. C. Horn Company, Long Island City, N. Y.

6595. *KeramiK KemiK Stains.* Brochure. Chemical penetrating stain giving artistic color effects.
6596. *Hornstone Crystals.* Folder. Chemical floor hardener.
6597. *Ferro-Far.* Folder. Metallic floor hardener.

Solvay Process Co., 40 Rector St., New York.

4601. *Solvay Calcium Chloride in Concrete Construction.* Book. Reference work.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Sommers & Co., Ltd., 342 Madison Avenue, New York.

5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.

5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.

2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

COST ACCOUNTING—See also Bookkeeping Machines

Irving-Pitt Mfg. Co., Kansas City, Mo.

6201. *Records That Talk.* Describes Irving-Pitt Loose leaf accounting system for contractor.

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.

3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Colonial Fireplace Co., 4603-4617 West 12th St., Chicago.

6681. *Everything for the Fireplace.* Catalog. Illus. Covers line of grates, andirons, dampers, mantels and kindred products.

H. W. Covert Co., 137 E. 46th St., New York.

6321. *Covert Improved Throat and Damper.* 3-part assembly for fireplaces.

Donley Bros. Co., 13920 Miles Ave., Cleveland, Ohio.

29513. *Donley Dampers.* Booklet. Illus. Complete line of fireplace dampers and ash dumps.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.

6361. *Mesker Fireplace dampers and ash dumps.*

Sykes Metal Lath Co., Niles, O.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DASH—See Stucco Dash

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.

4531. *Circular No. 2.* Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass

DIRECT MAIL ADVERTISING—See Mailing Lists

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.

2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.

Truscon Steel Co., Youngstown, O.

4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog.

DOORS, WOOD

Combination Door Co., Fond-du-lac., Wisc.

2751. *Easy-Change Combination Doors.* Catalog H. Illus.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.

3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Roddis Lumber & Veneer Co., Marshfield, Wisc.

6431. *Roddis Genuine African Mahogany Doors.* Describes flush-type doors in all woods, plain or figured.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.

4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.

Wheeler, Osgood Co., Tacoma Wash.

5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31 Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.

4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Beds, Door; also Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Empire Level Mfg. Co., 313 First Ave., Milwaukee, Wis.

6271. *Empire Levels.* Describes level with patented interchangeable vial case.

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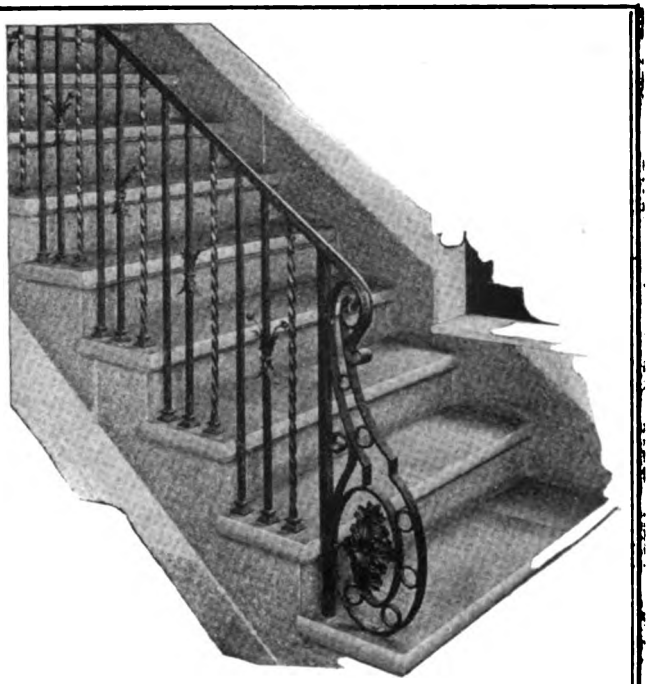
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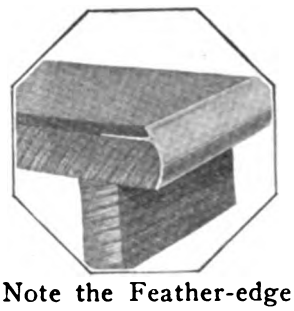


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Selected List of Manufacturers' Literature

(Continued from page 180)

Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.

Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments

C. F. Pease & Co., 813-821 No. Franklin St., Chicago, Ill.
6221. *General Catalog G.* 372 pp. bound in cloth. Illus. Includes index reference to complete line of drafting and surveying instruments. Book sent only to builders operating drafting room or using surveying instruments on a large scale.
6222. *Blue Printing Machinery.* Catalog M23. 64 pp. Illus.
6223. *Photographic Lamps.* Folder, 44 pp. Illus.
6224. *Sheet Dryer.* 8 pp. Illus. Deals with machine for drying blue, negative and photographic prints.

White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)

Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No. 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT

Frank Adam Electric Co., St. Louis, Mo.
6041. *Panel Board Hand Book.* Catalog. Contains data for contractor and electrical engineer.

Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.* Illus.

Erie Fixture Supply Co., Erie, Pa.
5551. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.

General Electric Co., Bridgeport, Conn.
3215. *G-E Farm Book.* Y-1948. 30 pp. Electricity on the farm.
3216. *G-E Welding Electrodes.* Folder.
3217. *Wires and Cables.* 85 pp. Illus. 4 bulletins.
3218. *Electric Fans.* Folder gec-20. 6 pp. Illus.
3219. *Multiply Conveniences by Three.* Folder GEC-25. 4 pp. Shows use of three devices from one outlet.
32111. *Cord Switch.* GEC-7. 4 pp.
32112. *For Dependable Soldering.* GEC-6. Shows use of soldering paste.
32113. *Oh, Boy, Now for DX.* 4 pp. On new model G-E Tungar Battery Charger.
32114. *G-E Tungar Battery Charger.* Leaflet GEC-19. 2 pp.
32115. *G-E Wiring System for Lifetime Service.* GEC-2. 6 pp.
32116. *The Home of 100 Comforts.* 40 pp. Y-1834. Complete treatise on adequate wiring. 25 cents.

Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42nd St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.
5003. 1926 *Catalog.* For electrical contractors.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3312. *Architect's Handbook.* 18 pp. Illus. Specifications.
3313. *Tumbler Switch.* Folder. 4 pp. Illus.
3315. *H & H General Catalog "S."* Includes new listings of flush, snap and canopy switches and candle sockets and receptacles.

Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago.
5521. *Ventilating Through the Kitchen.* Leaflet. Contains data on use and installation of electric exhaust fans for small homes.

Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.

Kohler Co., Kohler, Wisc.
6692. *Principle and the Proof.* Booklet. 32 pp. Describes private electric plants. Automatic, 110 volt, no storage batteries.

Stairway Switch Co., 235 Brookdale Ave., Glenside, Pa.
7051. *Stairway Switch.* Installed beneath cellar stair treads for automatic light control.

Western Elec. Co. (See Graybar Electric Co.)

ELEVATORS

American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No. 22.* Contains description of hoists and general line of woodworking machinery.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.

Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Details of Specifications.* The Service Department provides individual sheets to meet the specific needs of elevator users. Builders should state requirements for the particular job to be figured on

Sedgwick Machine Works, 156 West 15th St., New York.
4551 *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT

McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES

Fuller & Johnson Mfg. Co., 406 Ames St., Madison, Wisc.
6791. *Bulletin No. 430.* Describes engines for use with concrete mixers.
6792. *Bulletin No. 500.* Two Cylinder Engines for industrial work.

EXHAUSTERS—See Blowers; also Ventilators

FANS—See Blowers

FIBRE BOARD LUMBER—See Wallboard

FINISHES, PLASTIC—See Plastic Finish

FIREPLACE FURNISHINGS

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.

Colonial Fireplace Co., 4603-4617 West 12th St., Chicago.
6681. *Everything for the Fireplace.* Catalog. 48 pp. Illus. Covers line of grates, andirons, dampers, mantels and kindred products.

H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* Literature. 3-part assembly for fireplaces.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.

Jacobson Mantel & Ornament Co., 322 East 44th St., New York, N. Y.
6961. *Architecture and the Chimneypiece.* 10 pp. Illus. Shows mantel details installed.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog No. 11.* Illus. Presents complete line.

Pioneer Fireplace & Supply Co., 3329 West Lake St., Chicago.
5721. *Fireplaces.* Booklet. Deals with various types for builders use.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE

General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.

A. C. Horn Co., Long Island, N. Y.
6599. 16 *Floor Problems and How to Solve Them.*

Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING

Arkansas Oak Flooring Co., Pine Bluff, Ark.
6851. *Perfection Brand Oak Flooring.* Size and grade for every type of structure.

Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.

Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples. Standard and junior clips for anchoring wood floors to concrete.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Crooks-Dittmar Co., Williamsport, Pa.
6621. *Cromar Ready Finished Oak Flooring.* Concerns manufacture, selling and laying a flooring that is filled, varnished two coats and waxed at factory.

Eaglesfield Flooring Co., 914 Dorman St., Indianapolis, Ind.
6331. *Illustrated Book.* Designs in natural colors of parquetry and hardwood floors of Indiana quartered white oak.

Lanham Hardwood Flooring Co., Louisville, Ky.
6141. *Lanham Parquetry Floors.* Book of designs in color. Describes hardwood flooring sold direct-from-factory.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.

Maple Flooring Mfrs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors.* Booklet. 16 pp. Deals with laying and finishing.
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp. Gives concise information on flooring subjects.
3934. *The Floor Which the Years Will Make Precious.* Folder.
3935. *A Floor of Captive Sunlight.* Illus. Folder.
3937. *Folder.* Information on using 1½-inch face when flooring with maple, beech or birch.
39312. *Grading Rules.* Booklet. 8 pp.

Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.

Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.

Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

FLOORING, COMPOSITION

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6382. *Genasco Asphalt Mastic Booklet.* 32 pp. Illus.

Muller, Franklyn, R., Inc., Waukegan, Ill.
4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details
4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.

Rochond Co., Van Wert, O.
4463. *Rochond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial

Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Sanders

FLOOR SURFACING MACHINERY—See Sanders, also Floor Polishers

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FLUE LINING

W. S. Dickey Clay Mfg. Co., Birmingham, Ala., Chattanooga, Tenn., Kansas City, Mo., Macon, Ga., Texarkana, Tex.
6101. *Dickey Fire Clay Flue Lining.* Catalog.

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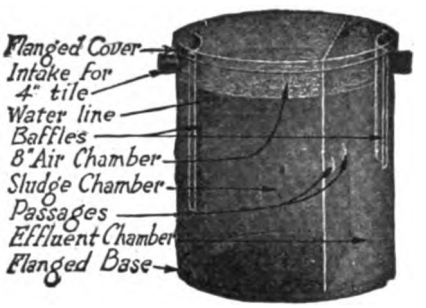
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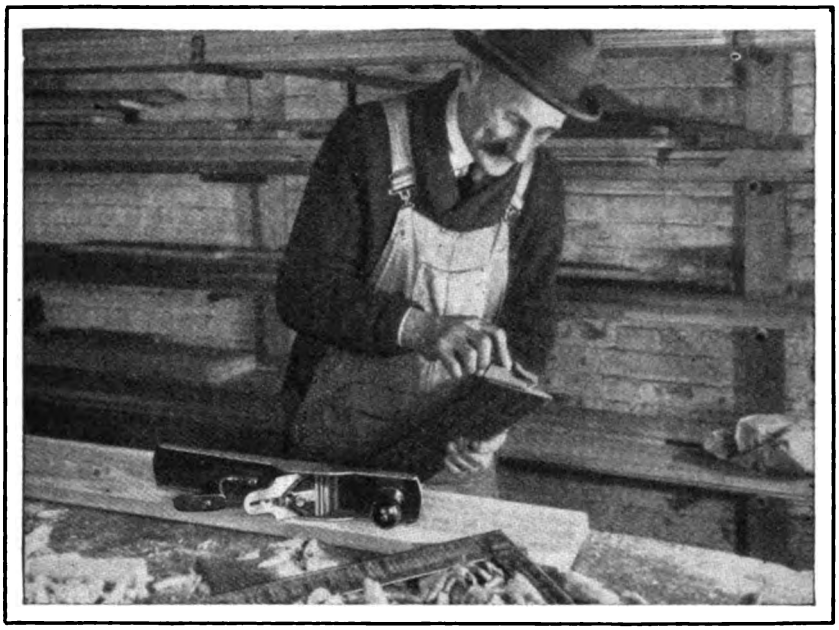
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Selected List of Manufacturers' Literature

(Continued from page 182)

FORMS—See Concrete Machinery
FRAMES, DOOR AND WINDOW
Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Frames.* 48 pp. Illus. Complete catalog.
2242. *How To Test Window Frames.* 12 pp. Illus.
Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5202. *Windows, Doors and Frames.*
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.
Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.
FROST PREVENTATIVE—See Concrete Processes
FURNACES—See Heating Equipment
GARBAGE DESTROYERS—See Incinerators
GARBAGE RECEIVERS
H. W. Covert Co., 137 E. 46th St., New York.
6323. *Covert Garbage Receivers.* Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2563. *Descriptive Literature.* Illus.
Majestic Company, Huntington, Ind.
3903. *Garbage Receivers.* Catalog of Majestic products
GAS PRODUCERS
Detroit Suburban Gas Plant Co., Detroit, Mich.
5831. *Literature.* For suburban homes.
GLASS
American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.
Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Store Fronts.* 36 pp. Cuts and details.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Takes up complete line Factrolite wire glass and Pentecor wire glass.
4012. *Factrolite.* Describes this type of diffusing glass.
4013. *Pentecor.* Combination rib and prism wire glass.
GLAZING COMPOUND—See Caulking
GLUE POTS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.
Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.
GRADEFINDERS—See Drafting & Surveying
GRATINGS, STEEL
Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6842. *Steel Grating.* For flooring, runways, etc.
GRILLES—See also Registers
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.
GRINDING MACHINERY
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.
GUARDS, WINDOW—See Grilles, also Ornamental Iron
GUTTERS—See Leaders, etc.
GYPSUM
United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*
HAMMERS—See Tools
HANGERS, DOOR—See Hardware, Window and Door
HARDWARE
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.* Shows relation of brass and copper products to the home.
Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps,* door hangers, store ladders, etc.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.
Parker-Kalon Corp., 3566 West 13th St., New York, N. Y.
6631. *Parker-Kalon Hardened Masonry Nails.* For use in brick, mortar, concrete, etc.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus.
4429. *Booklet.* Ill. Describes big door hardware for round houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.
Stanley Works, New Britain, Conn.
6671. *Hardware—Window, Door and Garage.*
6672. *Detail Manual.* Shows application of all Stanley Hardware.
HARDWARE, SLIDING DOOR—See Hardware, Window and Door
HARDWARE, WINDOW AND DOOR
Allith-Prouty & Co., Danville, Ill.
6051. *King Take-apart Adjustable Hinge.* Literature. Describes adjustable screen door hinge and other A.-P. products—fire and garage door hardware, door hangers, overhead carriers, spring hinges, rolling ladders.
Austral Window Co., 101 Park Ave., New York.
6081. *Austral Sash Sustainer.* Literature. Describes device for replacing weights on sash not exceeding 18 lbs. Sample sustainers, 50c. a set.
Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.
Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.
Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*
Coburn Trolley Track Mfg. Co., Dept. G-1, Holyoke, Mass.
6751. *Sliding Door Hardware for Garages, Factories, Warehouses.* Catalog No. 140.
Ideal Sash Supporter Co., Kingston, Pa.
6121. *Ideal Window Sash Supporters.* Literature. Describes supporters used in sets of four on each sash.
Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.
Lyons Mfg. Co., New Haven, Conn.
5281. *Lymco Casement Window Adjusters.* Folder. 4 pp. Illus. Shows operation of brass casement window adjuster.
McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Include working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Pullman Mfg. Co., Rochester, N. Y.
4371. 15 *Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No.* 38. Illus. Takes up all types of *Pullman* spring sash balance.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog No.* 40. Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.
Stanley Works, New Britain, Conn.
6671. *Hardware—Window, Door and Garage.*
6672. *Detail Manual.* Shows application of all Stanley Hardware.
Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.
HARDWOOD FLOORING—See Flooring
HEATING EQUIPMENT—See also Ranges
American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.
Andrews Heating Co., 2901 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.
Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.
Buffalo Co-operative Stove Co., Buffalo, N. Y.
Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.
H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly for various types of fireplaces.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Majestic Company, Huntington, Ind.
3902. *Ash Pit and Clean Out Doors.* Included in list of Majestic products.
Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.
Silent Automatic Corp., 255 Meldrum Ave., Detroit, Mich.
7041. *Silent Automatic Oil Burner.* Describes operation in detail.
Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* 10 cents.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.
United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.
HEAT INSULATION—See Insulation
HINGES—See Hardware, Window and Door
HOISTS—See also Elevators
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as hoists, mixers, scrapers, etc.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.
HORSES—See Scaffolding
HOUSE MOVING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.
INCINERATORS
Buffalo Co-operative Stove Co., Buffalo, N. Y.
5821. *Sanotype No.* 10. Deals with gas burning of garbage.
5822. *Sanotype No.* 1. Coal burning for toilet and garbage.

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Selected List of Manufacturers' Literature

(Continued from page 184)

5823. *Isolator.* **Gas burning.** Hospital.
5824. *Amherst Incinerator.* Booklet. Gas burning garbage destroyer.
5825. *Amherst Incinerator.* Folder.
5826. *Toilet and Waste Destroyer.* Booklet. For coal, coke or wood.
5827. *General Catalog.* Covers entire line.

Kerner Incinerator Co., 727 East Water St., Milwaukee, Wis.

3641. *The Sanitary Elimination of Household Waste.* Folder M-30.

INJECTERS—See Water Systems

INSULATION

American Reenforced Paper Co., Attleboro, Mass.

5851. *Sisakraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.

6381. *Genasco Protectvie Products.* Booklet. 14 pp. Illus.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.

2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*

Bird & Son, East Walpole, Mass.

2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.

2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus. Deals with Bishopric Stucco and Sunfast finishes.

Brown Company, Portland, Me.

2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.

2591. *Cabot's Insulating Quilt.* Booklet. 24 pp.
2595. *Cabot's Deadening Quilt.* Booklet. 28 pp.

Celotex Co., 645 North Michigan Ave., Chicago.

2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.

3081. *Heat Insulation for Houses.*
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.

6821. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.

3559. *Insulating Materials.* 22 pp. Illustrated.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.

7031. *KVP Building Paper.* Literature. Describes insulating and lasting properties.

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.

6971. *All-Wood Manufactured Lumber.* In standard sizes 4x8 ft. and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Ruberoid Co., 95 Madison Ave., New York.

4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.

4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.

U. S. Mineral Wool Co., 280 Madison Ave., New York.

4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus.

IRONING BOARDS—See Built-In Features

JACKS, BUILDING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.

3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL

General Fireproofing Co., Youngstown, O.

3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Truscon Steel Co., Youngstown, O.

4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

KITCHEN SINKS

Kohler Co., Kohler, Wisc.

6691. *Kohler Line.* Includes bathroom fixtures and plumbing equipment.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.

5956. *Is Your Sink a Yard Stick High?* Folder in color.

LAMP STANDARDS

Geo. L. Mesker & Co., Evansville, Ind.

63611. *Mesker Cast Iron Lamp Standards.* White Way lamp posts. Includes stock models and special designs.

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES

Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.

5801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS

Copper & Brass Research Assn., 25 Broadway, New York.

5943. *Real Roofing.* Literature. Illus.
5944. *Copper Flashings.* Hand-Book.

Milwaukee Corrugating Co., Milwaukee, Wisc.

4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.

Wheeling Corrugating Co., Wheeling, W. Va.

5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

Wheeling Metal & Mfg. Co., Wheeling, Va.

5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING FIXTURES—See also Electrical Equipment

Erie Fixture Supply Co., Erie, Pa.

5351. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.

Jacobson Mantel & Ornament Co., 322 East 44th St., New York, N. Y.

6962. *Grinling Gibbons Electric Light Wall Fixtures.*

LIGHTNING RODS

Copper & Brass Research Assn., 25 Broadway, New York.

5945. *Side Tracking Lightning.*

Washburne & Co., E. G., 207 Fulton St., New York.

4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME

Kelley Island Lime and Transport Co., Cleveland, O.

3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*

National Mortar & Supply Co., Pittsburgh, Pa.

6771. *Banner Finish Specifications and Other Descriptive Literature.*

United States Gypsum Co., 205 W. Monroe St., Chicago.

4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

LINOLEUM—See Flooring

LOANS

Miller & Co., G. L., 30 E. 42nd St., New York.

5171. *Descriptive Literature* pertaining to the financing of building.

LUMBER AND WOODWORK

Arkansas Soft Pine Bureau, 801 Boyle Bldg., Little Rock, Ark.

6441. *Handbook.* Includes finishing instructions. Samples of natural and finished panels.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.

2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
2613. *Some "Dollar-Sense" About Lumber on the Farm.* 32 pp. Construction details with description.
2614. *Introducing "Cal" Pine, Guardian of the Grades.* 50 pp. "Cal" Pine explains grade-marking.

Chicago Millwork Supply Co., 1400 West 37th St., Chicago.

5871. *Millwork and Building Material Catalog.* Illus.

Farley & Loetscher Mfg. Co., Dubuque, Iowa.

5203. *Interior Finish in Hardwood.* F-L line of mouldings, etc.

Gumwood Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.

6231. *Beautiful American Gumwood.* Booklet. Describes application of Gumwood for paneling and interior woodwork.

Hartmann-Sanders Co., Elston and Webster Aves., Chicago.

3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.

Jackson Lumber Co., Lockhart, Ala.

5771. *Builders Lumber.* Literature. Illus.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.

3815. *Post Everlasting.* 16 pp. Illus. Information on creosted yellow pine fence posts.
3816. *Sentinels of Service.* 32 pp. Illus. Creosoted yellow pine poles.

Maple Flooring Mfgs. Assn., Stock Exchange Bldg., Chicago.

3931. *How to Lay and Finish Maple, Beech and Birch Floors.*
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3936. *What You Can Do With Wide Face Flooring.* Folder.
3938. *Long Service From Short Lengths.* Folder. Gives suggestions on floors of Maple, Beech or Birch.
39312. *Grading Rules.* Booklet. 8 pp. Gives rules for Maple, Beech and Birch Flooring.

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.

6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.

5901. *The Charm of Modern Oak.* Booklet. Tells of the Renaissance of Oak for woodwork finish.
5902. *The Charm of The Sovereign Wood.* 80 pp. 100 plates.

Roddis Lumber & Veneer Co., Marshfield, Wisc.

6431. *Roddis Genuine African Mahogany Doors.* Describes Flush-type doors in all woods, plain or figured.

Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.

4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.

West Coast Lumber Trade Extension Bureau, 5562-E Stuart Bldg., Seattle, Wash.

6741. *Treatise on Douglas Fir.* Douglas Fir for scaffolding, for concrete form, structural timbers and many interior uses.

Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.

5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

LUMBER, ASBESTOS—See Asbestos Products

MACHINES, BOOKKEEPING AND ADDING—See Bookkeeping Machines, also Adding Machines.

MAIL BOXES—See Built-In Features

MANTELS—See Fireplace Furnishings.

MARQUISES

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog. Supplement 22. 24 pp.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.

6366. *Marquise and Suspended Metal Awnings.*

MASONRY NAILS

Parker-Kalon Corp., 356 West 13th St., New York, N. Y.

6631. *Parker-Kalon Hardened Masonry Nails.* For use in brick, mortar, concrete, etc.

METALS AND METAL BUILDING SPECIALTIES

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.

2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.

6841. *Tru-Tye. Steel Bridging.* Steel tension bridging holding without nails.

Bridgeport Brass Co., Bridgeport, Conn.

2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rods to make screw machine parts.

Chase Companies, Inc., Waterbury, Conn.

6311. *Alpha Brass Book.* Describes Alpha Brass Pipe containing Alpha crystals.

Copper & Brass Research Assn., 25 Broadway, New York.

5946. *Practical Brass Pipe Plumbing.* Hand-Book.
5947. *Brass Pipe Plumbing for Your Home.*
5945. *Side Tracking Lightning.* Shows annual loss from lightning and use of copper rods to save buildings.
5944. *Copper Flashings.* Hand-Book.
5948. *The Story of Copper.* Tells use of copper, brass and bronze through the ages.
5949. *Screens That Keep Them Out.* Describes copper and bronze screen-cloth.
59411. *Physical Properties of Copper.* Hand-Book for engineers.

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The concrete pits and walls of the pipe tunnels in this post office leaked badly.

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WM. H. FISSELL & CO.
CONTRACTORS



View of the Pfaudler Booth, American Hospital Association Exhibit (1925), Louisville, Ky.

ARCHITECTS!

See the Glass Lined Laundry Chute at the Hospital Show

ATLANTIC CITY
Sept. 27th-Oct. 1st
1926
Booth No. 14

The Pfaudler Co.
Laundry Chute Division
ROCHESTER, N. Y.

PFAUDLER glass lined

Selected List of Manufacturers' Literature

(Continued from page 186)

Donley Bros. Co., 12920 Miles Ave., Chicago.
2554. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.
Edwards Manufacturing Co., Cincinnati, O.
2991. ***Edwards Metal Roofing,* etc. Catalog. 224 pp. Illus.**
General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.
Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.
F. D. Kees Mfg. Co., 20 High St., Beatrice, Neb.
6261. *Metal Corners for Wide, Colonial Siding.* Kees metal corners to give buck-mitred corner effect.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6367. *Mesker Metal Ceilings.*
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No. 27.* 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.
Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

MILLWHITE
U. S. Gutta Percha Co., 13 Dudley St., Providence, R. I.
6171. *Barreled Sunlight.* Describes product giving an enameled finish at a paint cost. Contains no varnish. Free sample cans of *Barreled Sunlight* and *Barreled Sunlight Undercoat.*

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

MORTAR BOARDS AND BOXES
Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. ***Cabot's Stucco and Brick Stains.*** Booklet. 14 pp. Illus.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. ***Clinton Mortar Color.*** Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.
2735. *Something New in Stucco.* Folder. 8 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
65911. *Staybrite.* Dry and paste colors. Folder and color card.
C. K. Williams & Co., 636 N. 13th St., Easton, Pa.
6601. *Anchor Brand Mortar Colors and Cement Colors.* Folder.

MOTOR TRUCKS AND ACCESSORIES—See Trucks, Motor and Trucks, Motor-Supplies

NAILS, MASONRY—See Masonry Nails

NAILS, ROOFING—See Roofing

OIL BURNERS—See Heating Equipment

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*
6363. *White Way Posts.* 24 pp. Illus. Cast Iron Lamp Standards.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

ORNAMENTS
Jacobson Mantel & Ornament Co., 322 East 44th St., New York, N. Y.
6963. *Compo Ornaments for Application to Woodwork.* Take place of wood carving on mirror frames, mantel pieces, over mantel, etc.

PACKAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating, industrial paint, acid proof paint, battery paint.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
A. C. Horn Co., Long Island City, N. Y.
65912. *General Line.* Color cards and specifications.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. ***Portfolio of Wood Panels.*** 14 pp. Contains actual panels.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. Illus. catalog. Specifications for dampproofing, waterproofing, enameling.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4782. *Science and Practice of Integral Waterproofing.* Illus. 33 pp. Contains specifications for waterproofing mass, concrete stucco and cement plaster coat.
4783. *Technical Pamphlet No. 8.* Booklet. 28 pp. Discusses concrete waterproofing.
U. S. Gutta Percha Co., 13 Dudley St., Providence, R. I.
6171. *Barreled Sunlight.* Describes product giving an enameled finish at a paint cost. Contains no varnish. Free sample cans of *Barreled Sunlight* and *Barreled Sunlight Undercoat.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
6594. *Symentrex* and *Koncrex.* Color cards for each.
U. S. Gutta Percha Paint Co., 13 Dudley St., Providence, R. I.
6172. *Barreled Sunlight.* Literature. Includes sample concrete block and tinting suggestions.

PAINTS, WATERPROOFING—See Waterproofing

PANELS—See Veneer, Wallboard, Panels, Wood

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of Alberene Stone.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PEBBLE DASH—See Stucco Dash

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.
Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Describes Alpha Brass pipe containing Alpha crystals.
Copper & Brass Research Assn., 25 Broadway, New York.
5946 *Practical Brass Pipe Plumbing.* Handbook.
5947. *Brass Pipe Plumbing for Your Home.*

PIPE, CONDUCTOR
Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofings.*
5944. *Copper Flashings.* Handbook.
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.
City and Farm House Plans. (See listings under Brick.)
L. F. Garlinghouse, 121 W. Sixth Ave., Topeka, Kansas.
6111 *Beautiful Homes.* 6th Edition. 1926 plan book of houses costing $1,000-$8,000 for which stock plans are obtainable. Price of book, $1.50.
Home Owners' Service Institute, Inc., 441 Lexington Ave., New York.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price 10 cents.
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLASTERING MATERIAL—See Lime, also Fibre

PLASTIC FINISH
Morene Products Co., Inc., 154 East 47th St., New York, N. Y.
6781. *Morene, the Wall Finish Distinctive.* Sample of Portland Cement Product for interior finish.

PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing in diagram and information on service and guarantee.
Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet installation
Crane Co., 836 S. Michigan Ave., Chicago.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kaustine Co., Inc., Buffalo, N. Y.
6241. *Kaustine Super-Septic Tanks.* Describes Armco Iron Septic Tanks. Include plan and installation advice.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.

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CROMAR
READY FINISHED
OAK FLOORING
stands the hardest wear

The CROMAR Ten Points of Prime Importance

1. Factory finished — like furniture.
2. Finish stands hardest wear.
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4. V-type tongue and groove easy to lay.
5. Beveled tongue prevents damage in nailing.
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7. Convenient and damage-proof bundle.
8. Laying contracts need not be sublet.
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10. Laid and used the same day.



CROMAR Flooring is filled, varnished, waxed, and moisture-proofed at the factory — by patented machines.

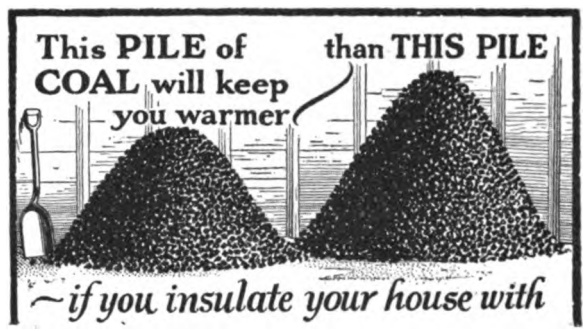
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Much of the enduring quality of a floor finish, of course, depends upon how it is applied. With CROMAR, great pressure drives the filler deep into *every* pore of the wood. Thus the oil in the varnish is prevented from seeping into the wood. That oil, remaining, keeps the varnish elastic. Test the result with a hammer: you may dent the wood but you cannot chip off the varnish nor scratch it white.

The Crooks-Dittmar Company
Williamsport, Pa.

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FACTORY FINISHED
OAK FLOORING
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CABOT'S Heat-Insulating "QUILT"

Your house gets cold in Winter because the heat escapes. Quilt stops this and keeps the house warm on the smallest amount of fuel. It will save about one-third of your coal bill—and will keep up this saving and make you comfortable as long as the house stands. Quilt is sanitary and permanent (will not get foul or rot, nor harbor insects or vermin); it is fire-resistant; flexible (can be used anywhere); and low in cost for material and labor.

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Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double Colors, Double White, Waterproof Collopakes, Etc.

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Selected List of Manufacturers' Literature

(Continued from page 188)

Kohler Co., Kohler, Wisc.
6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models.
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.
Republic Brass Co., Cleveland, Ohio.
6661. *Republic Two-Way Service Control.* Folder. Describes control lever of shower.
Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5951. *"Standard" Plumbing Fixtures for the Home.* Catalog. 64 pp. Describes fixtures for bathrooms, kitchens, laundries.
5952. *The Romance of "Standard" Advertising.* Booklet in colors. Shows detailed development of company's advertising.
5957. *"Standard" Double Faucets.* Folder in colors. Describes double nickeled brass faucets, swinging spout, and "tempered" water.
Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* Takes up complete line of plumbing and Heating supplies. 10 cents.

PORCHES
Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.

PUMPS
Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.
Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.
Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus.

PYROBAR GYPSUM TILE
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS
American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus.
United States Radiator Corp., Detroit, Mich.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp.
Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

RADIATOR CABINETS
Hart & Cooley Co., New Britain, Conn.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4803. *T. & B. Radiator Cabinets.* Describes all-steel cabinet, insulated seat and humidifier.

RADIO PRODUCTS
Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment
American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.
Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.*
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS
Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.

REGISTERS
Hart & Cooley Co., Inc., New Britain, Conn.
3302. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
Majestic Company, Huntington, Ind.
3304. *Majestic Line.* Malleable Iron and Copper Steel.
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF CONSTRUCTION—See also Roof Trusses
Lamella Roof Syndicate, Inc., 45 W. 45th St., New York.
6501. *Lamella Roofs.* Literature. Describes system of building with wood units spans up to 150 ft.

ROOFING MACHINERY
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

ROOFING MATERIALS
American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.
2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.
2145. *Eternit Asbestos Lumber.* 12 pp. folder.
2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.
2147. *Instructions for Applying Eternit Asbestos Shingles.*
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating and asphalt putty.
6383. *They Weather All Weather.* Four colors. 24 pp. Latite Shingles and GGenasco Sealbac shingles.
6384. *Locked On and New Roofs Over Old.* Booklets. 16 pp. Illus.
6385. *Sealbac Shingle Booklet.* 16 pp. Illus.
6386. *Look Under the Surface!* 6 pp. Illus. Smooth surface and slate surface roll roofing.
6387. *Phoenix Ready Roofing.* 6 pp. Illus.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*
Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.
Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.
Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.
Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.
Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.
Copper & Brass Research Assn., 25 Broadway, New York.
59412. *Copper Roofings.*
5943. *Real Roofings.*
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand*, white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.
Keystone Roofing Mfg. Co., York, Pa.
3661. *The Magic Touch of Preston Shingles.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle. Includes sample.
Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.
Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.
Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.
Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.
Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction
Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4962. *Making Old Houses Into Charming Homes.* Colored photogravures.
4963. *Book.* Devoted to remodeling of old homes.
Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES
McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.
Geo. L. Mesker & Co., Evansville, Ind.
6368. *Standard Steel Bow String Roof Trusses.*

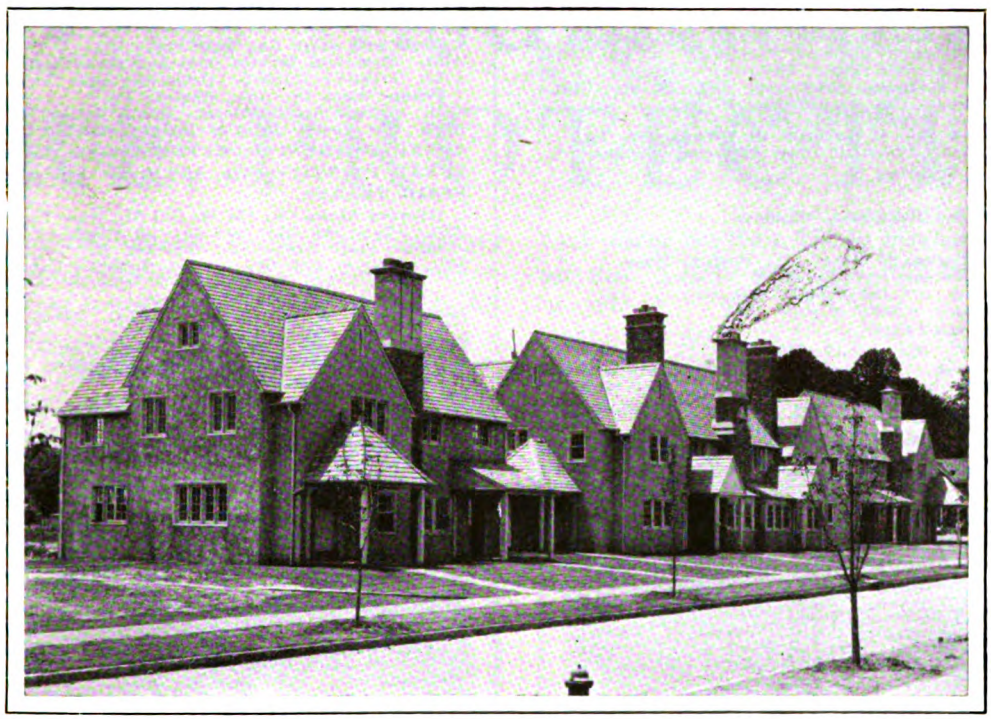
RULES—See Drafting and Surveying

SALAMANDERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
20512. *Donley Salamanders.* Leaflet. Illus.

SAND
James Murray & Co., Inc., 257-263 Avenue C, New York.
7001. *White Sand.* Shipped anywheres.

SANDERS
American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago, Ill.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

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"Group" houses in Mariemont, near Cincinnati, Ohio; Carl A. Ziegler, Philadelphia, Architect. Kohler Plumbing Fixtures, extensively used throughout Mariemont, supplied by Walworth Co. and Mutual Mfg. & Supply Co., Cincinnati, Jobbers; installed by Ruhlman Plumbing Co., Mariemont

MANY of America's leading architects have collaborated in the designing of houses for Mariemont, the new town near Cincinnati, Ohio. The well-known firm of John Nolen, Philip W. Foster, Associate, Cambridge, Mass., has developed the "town plan" for this garden suburb. And the fine fruition of this notable project is attracting growing notice from architects, builders, and all interested in town or community development.

It is a distinct source of satisfaction to Kohler Co. that Kohler Plumbing Fixtures are being extensively used in the houses of Mariemont. The selection of this ware—always marked by the name "Kohler" fused in immaculate enamel, and always representative of highest worth at no higher cost—again shows the suitability of Kohler fixtures for large installations where both quality and economy must be considered.



The Shops, Kohler Village

Another of America's notable community developments is Kohler Village, where Kohler plumbing fixtures and private electric plants are made. Write for illustrated brochure describing this unusual project

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KOHLER OF KOHLER
Plumbing Fixtures

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Selected List of Manufacturers' Literature

(Continued from page 190)

Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.
Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.
3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.
National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus.
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.
4113. *National Floor Surfacing Machinery.* Cat. 26 pp. Illus.
4114. *How and Where to Use Oak Floors.* 16 pp.
4115. *When You Have Scraped Along.* 8 pp.
Wayvell Chappell & Co., 42 Jackson St., Waukegan, Ill.
6921. *Year to Pay Plan.* Automatic Floor Surfacing Machine.

SANITAS—See Wall Covering

SASH—See Windows

SASH BALANCES—See Hardware, Window

SASH CORDS

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.
Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

SCREEN MANUFACTURERS' MACHINERY

J. B. Crofoot Co., P. O. Box 783, Chicago, Ill.
6391. *Crofoot Screen Tacker.* Describes stapling machine that drives 77 staples with one loading. Deals with trial offer.
DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.
3942. *Screens for Profit.* Folder. 4 pp. Illus

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.
American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.
Copper & Brass Research Assn., 25 Broadway, New York.
5949. *Screens That Keep Them Out.* Describes screen-cloth of brass and copper.
Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures, etc.
Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEPTIC TANKS—See Plumbing Equipment

SEWAGE DISPOSAL—See Plumbing Equipment

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHEET METAL PRODUCTS—See Metals

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SINKS—See Kitchen Sinks, also Plumbing Equipment, also Bathroom Fixtures.

SHOWERS—See also Plumbing, also Bathroom Fixtures.
Kenney Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.
Republic Brass Co., Cleveland, Ohio.
6661. *Folder Two-Way Service Control.* Folder. Describes control lever of shower
White Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich.
New York Office and Display Room, Room 409, Columbia Bank Building, 507-5th Ave. Mr. Harry Parker in charge.
5342. *White Steel Shower Curtain Poles.*

SKYLIGHTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6369. *Mesker Skylights.*
Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.
Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book or Roofing Slate for Architects.* Illus.

SOUND DEADENING MATERIAL—See Insulation

SPRAY PAINTING—See Air Brush Equipment

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated literature* on stair treads of Alberene Stone.
Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.
Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.
Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread.

STAIRWAYS, MOVABLE

Bessler Disappearing Stairway Co., Akron, O., or 220 E. 44th St. New York.
2432. *Bulletin. Illus.* Price List.
Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.
Marschke Co., 301 Pioneer Bldg., St. Paul, Minn.
6701. *Marschke Stair.* Describes balanced folding stair.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Catalog.* Mesker Store Fronts. 36 pp. Cuts and details.
Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus. Deals with Bishopric Stucco and Sunfast finishes.
Elastica—see listing under U. S. Material Co.
Flint Rock Stucco Co., Arcade Bldg., Dayton, O.
5682. *Flint-Rock All-Mineral Stucco.* Catalog. Illus. Describes Oxy-Chloride Cement.
5683. *Architex Finish.* Catalog. Illus. Describes specially prepared colored stucco finish coat.
Lehigh Portland Cement Co., Allentown, Pa.
3771. *Build the Castle of Your Dreams.* 32 pp.
3772. *Permanent Satisfaction in Your Building.* Illus. Book.
3773. *The Lehigh Magazine.* New House Monthly.
3774. *28 Better Homes.* Describes winning designs in Lehigh Cement Small House Competition.
Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.
Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.
Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.
United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.
U. S. Materials Co., Chicago, Ill.
6071. *Elastica, the Waterproofed Stucco.* Describes product manufactured by this company in Chicago, the American Materials Co. in New York, the Art Stucco Materials Co. in Detroit, and Northwest Materials Co. in St. Paul.

STUCCO AND PLASTER BASES

American Reenforced Paper Co., Attleboro, Mass
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6389. *Genasco Stucco Base.* 16 pp. Illus. Stucco Base for use with Portland Cement or Magnesite Stucco.
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

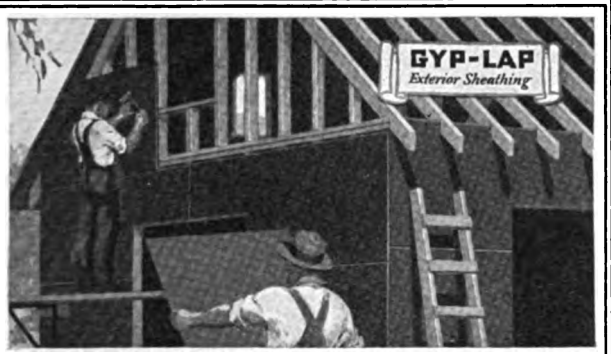
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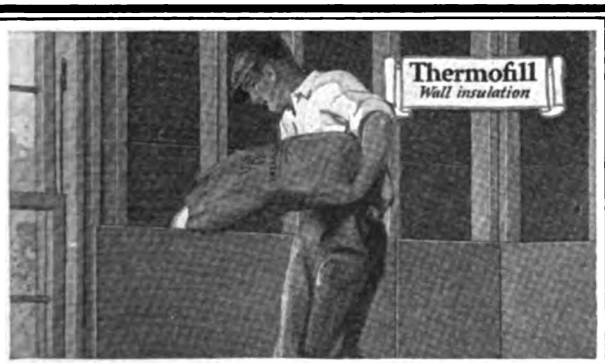


OUTSIDE Nail Gyp-Lap, the fireproof sheathing, on the *outside* of your framework. Broad, thick sheets of pure gypsum rock—brace the entire structure—and make it wind-tight, weather-proof, fireproof.

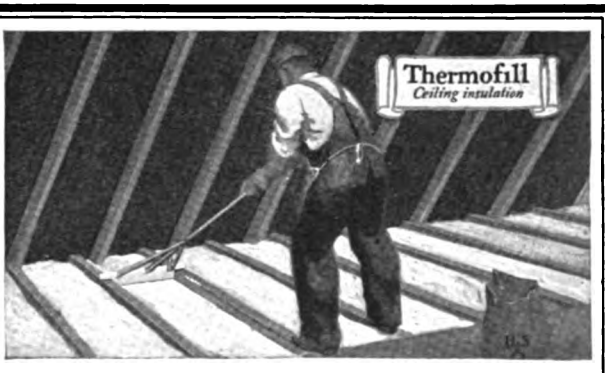


INSIDE Nail Rocklath, the fireproof lath, on the *inside* of your framework. Sheets of pure gypsum rock, instead of inflammable wood lath. No warping, streaks or stains; uniform; perfect bond for plaster.

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BETWEEN Fill the spaces between the Gyp-Lap and the Rocklath on the sidewalls with Thermofill, The Dry Fill Insulation. Low-cost, fireproof, flaky gypsum product, comparable to cork as an insulator.



ABOVE Put Thermofill, The Dry Fill Insulator, between the rafters or over the top-story ceiling. With Gyp-Lap, Rocklath, and Thermofill you blanket the entire house with a solid wall of gypsum—insulated, fireproof.

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Address .....

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Selected List of Manufacturers' Literature

(Continued from page 192)

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp.
24613. *Looking Behind the Stucco.* Booklet. Illus. Story of Bishopric Base, reinforcing background for stucco and plaster walls.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.
2482. *Bostwick Economy.* Booklet. 30 pp. Non-technical discussion of Bostwick products.

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Celotex Company, 645 N. Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex*, and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6822. *Literature and Samples.*

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver*, *Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

STUCCO DASH
C. K. Williams & Co., Easton, Pa.
6602. *Verdolite Stucco Dash.*

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TAPES—See Tools

TELEPHONES—See also Electrical Equipment
Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42d St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. 1926 *Catalog.* For electrical contractors.

THERMOSTATS—See Heating Equipment

TILES, FLOOR AND WALL
Lloyd Floor and Wall Tile Co., P. O. Box 5064K, Kansas City, Mo.
5881. *Tile Catalog.* Describes Ceramic Mosaic Floor Tiles, Glazed Wall Tiles and tile trimmings sold direct.

TILE MANUFACTURE
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Mortarless Tile Machine Co., 21-22 Carrillo Bldg., Santa Barbara, Calif.
6531. *Build with Interlocking Concrete Tile.* Describes machine, gives details and typical installations. 12 pp. Illus.

TILE, STEEL
General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.
Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TIRES
Kelly-Springfield Tire Co., 250 West 57th St., New York, N. Y.
6901. *Kelly-Springfield Truck Tires.* Tires for standard sizes.

TOILET INCINERATORS—See Incinerators

TOOLS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.
Empire Level Mfg. Co., 313 1st Ave., Milwaukee, Wis.
6271. *Empire Levels.* Describes level with patented interchangeable vial case.
Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.
Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog No. 11.* Illus. Presents complete line.
Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Cheney Hammers and Prentiss Vises.*
Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.
Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524 *Sargent Planes.* Catalog. 64 pp. Illus.
Starrett Co., The L. S., Athol, Mass.
5981. *Catalog No. 23 "P".* Describes Stainless Steel Tape.
5982. *Starrett's Stainless Steel Tapes.*
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR
Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, MARKING—See Marking Devices

TOWEL RACKS—See Bathroom Fixtures

TRAPS—Steam and Radiator
Johns-Manville, Inc., 292 Madison Ave., New York.
55516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRANSMISSIONS
Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRESTLES—See Scaffolding

TRUCKS—MOTOR
Chevrolet Motor Co., Detroit, Mich.
6091. *One Ton Truck Chassis.* Time payment plan operated through dealers.
Graham Brothers, Detroit, Mich.
6451. *Literature.* Describes Graham Brothers' trucks sold by Dodge Brothers dealers.
International Harvester Company of America, Inc., 6066 S. Michigan Blvd., Chicago.
68711. *International Harvester Trucks.* High speed and heavy duty types.

TRUCKS, MOTOR—SUPPLIES
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.
Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRUCKS, MOTOR—TIRES—See Tires

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment
Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing-in diagram and information on service plans and guarantee.
Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus.

VAULT LIGHTS
American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus

VENEER AND VENEERING
Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS
Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2542. *Breezo Booklet.* Form 2320. Describes fan unit for domestic use. Installed in kitchen window.
2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.
Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.
Hart & Cooley Co., Inc., New Britain, Conn.
3304. *H & C Cold or Warm Air Ventilators.*
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago.
5521. *Ventilating Through the Kitchen.* Leaflet. Contains data on use and installation of electric exhaust fans for small homes.
Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.
Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

VISES
Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Prentiss Vises and Cheney Hammers.* Described in literature.

WALLBOARD
Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*
Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6823. *Literature and Samples.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Guplath.* Catalogue Ga.
48112. *Architects' Specifications for Guplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.
Upson Co., Lockport, N. Y.
4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.
4853. *4-Page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders. Single blue prints, price 25 cents.
4854. *The Upsonizer.* Periodical. 24 pp. Illus.
4855. *Interiors Beautiful.* Booklet. Illus.

WALL CONSTRUCTION—See Building Construction

WALL COVERING
A. C. Horn Co., Long Island City, N. Y.
65913. *Tx-Crete.* Texturing material. Folder. For walls and mural decorations.

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Selected List of Manufacturers' Literature

(Continued from page 194)

Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WASTE DESTROYERS—See Incinerators

WATER GAUGES—See Plumbing Equipment

WATER HEATING SYSTEMS

Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.*

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.

Humphrey Co., Kalamazoo, Mich.
6031. *Humphrey Automatic Gas Water Heaters.* Literature. Covers entire line.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic water-works fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.

Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Range Boilers.* Literature. Describes galvanized and copper types.
5892. *Storage Systems.* Literature. Describes automatic, gas-fired types.

Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.
6861. *Anti-Hydro Formula.* For hardening, waterproofing, and damproofing concrete, stucco and cement mortar.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.* 16 pp. Illus.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Points and Insulating Paper.*

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers dampproofing, clear brick waterproofing, and clear cement waterproofing.

General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus

A. C. Horn Co., Long Island City, N. Y.
6598. *A.I.A. File Folder.* Data on Horn's principal dampproofing products.

Johns-Manville, Inc., 292 Madison Ave., New York.
3551?. *Aquadom.* Folder. 4 pp. Illus. Explains use.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Toch Bros., 110 E. 42nd St., New York
5331. *Specifications.* 60 pp. illus catalog. Specifications for damp-proofing, waterproofing, enameling.

Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit.
4781. *Spread Sunshine Inside.* Book. Describes methods for light saving through use of light-reflecting enamels.

WATER SOFTENERS—See Water Systems

WATER STORAGE—See Water Heating Systems; also Water Systems

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Fort Wayne Engineering Co., Fort Wayne, Ind.
3341. *Paul Water Systems.* Describes sies for various types of wells and cistems.
6342. *Paul Soft Water Generator.* Describes high capacity, small sized softening outfit.
6343. *The Old Oaken Bucket Up-to-Date.* Booklet. Details for builders, dealers and home owners.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
1581. *Catalog.* Covers plumbing, heating, and pneumatic water-works fields.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.

Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstr'rs and their installation.

Chamberlain Metal Weatherstrip Co., Inc., Detroit, Mich.
5551. *Chamberlin Metal Weatherstrip Details.* Catalog. Illustrated. Contains a summary of details pertaining to construction.

Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.

Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.

Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*

Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2871. *Standard Steel Casements.* Catalog. 2-26. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.
2872. *Cottage Casements.* Pamphlet. Illus.

Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Steel Casement Windows.* 24 pp. Illus. New edition. Includes photographs and detail drawings.
2922. *Fenestra Basement Windows.* Booklet. 16 pp.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.

Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Takes up complete line Factrolite Wire Glass and Pentecor Wire Glass.
4013 *Pentecor.* Combination rib and prism wire glass.
4012. *Factrolite.* Describes this type of diffusing wire glass.

National Steel Products Co., 6900 S. Water St., St. Louis, Mo.
6761. *National Basement, Factory and Garage Windows.* Standard types of steel in sizes for all purposes.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD—See Frames, Door and Windows

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No.* 21. Describes circular saws of all sizes.
2172. *Contractors' Bulletin No.* 82.
2173. *General Catalog No.* 25. Illus. 192 pp.

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. *Catalog,* 850-54. Describes the *Buffalo* Woodworker.

Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron.* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.

Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.

Crowe Mfg. Co., Cincinnati, O.
7061. *Crowe Safety Saw.* Portable saw with safety guard for use on lumber.

DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.

Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Wodworker.* 18 pp. Describes model No. 8, 9 and 12.

Michel Electric Hand Saw Co., 1801 Berenice Ave., Chicago.
6161. *Circular R-3.* Describes applications of *Skilsaw,* a portable electric hand saw.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.

Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size,
4582. *Booklet.* 12 pp. Illus. Gives additional information.

Wallace & Co., J. D., 134-138 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.
7022. *Wodack Portable Electric Drills and Grinders.*

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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Wonderful new features. Totally enclosed. More light where most needed. A real current saver.

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Globe extends above reflector, providing shadowless ceiling illumination.

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Beauty and efficiency combined. Canopy, hanger and ornamental metal band finished in Antique Bronze. Reflector is White Porcelain Enamel with Ivory Band.

Plain and ornamental types. Priced exceptionally low. Write for folder illustrating the various styles.

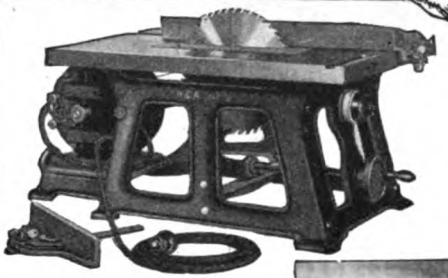
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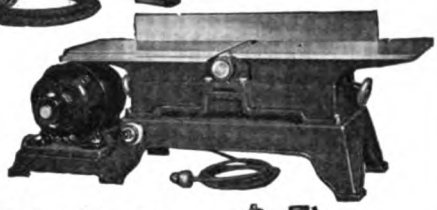
				Plain Ref. Plain Glass		Plain Ref. Dec. Glass		Orn. Band Dec. Glass		Orn. Band Plain Glass	
Watts	Skt.	Dia. Ref.	Glass Size	No.	Price	No.	Price	No.	Price	No.	Price
75 to 150	Med.	12½"	8½" x 4"	B2820	$5.90	B2823	$6.45	B2826	$8.10	B2829	$7.55
200	Med.	17"	11½" x 5"	B2821	8.35	B2824	8.90	B2827	11.10	B2830	10.55
300 to 500	Mog.	21"	14½" x 6"	B2822	11.65	B2825	12.80	B2828	15.60	B2831	14.45

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DESIGNERS-ENGINEERS-MANUFACTURERS
Lighting Equipment
ST LOUIS U.S.A.

Every Contractor Who Uses Them Will Tell You That H & A Portable Bench Saws Are Big Labor Savers



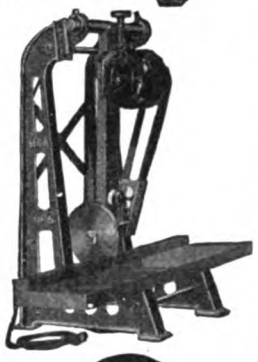


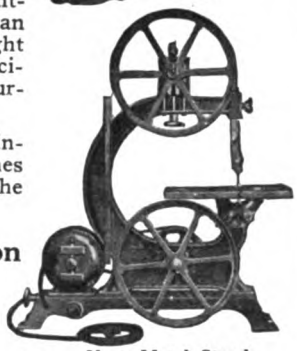


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Chicago & Bloomington Stone Co., Bloomington, Indiana

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We will, in addition, give you an accurate estimate on the cost of the steel and iron work which enter into the building construction. Other material costs you can get from your local building supply dealer. With this plan and the costs you will be "all set" to close the prospect. In just this way we have aided thousands of contractors in landing jobs.

Our vast stocks of raw materials, coupled with our immense fabricating plant, assure you of prompt delivery so that from the word "go" we help you rush a job through to a satisfactory completion.

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Public Garages
Steel Trusses
Steel Columns
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Department 21
EVANSVILLE, INDIANA

OUR PRODUCTS
Steel Windows
Roof Ventilators
Elevators
Coal Chutes
Sidewalk Lights
Steel Ceilings

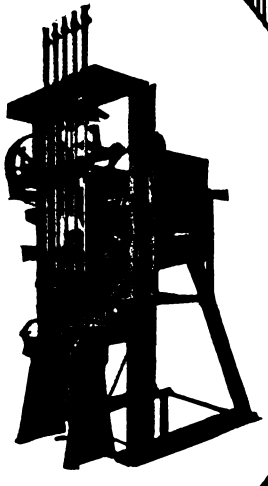
ANCHOR

BRICK

In the most active building markets in the country, Anchor Brick are an important factor, and some of the largest concrete brick plants in the world are equipped with Anchor brick-making machinery.

Anchor equipment for making brick is available in compartively small manufacturing units—"Start with a single unit—add as you grow."

Here is an Anchor Brick Machine



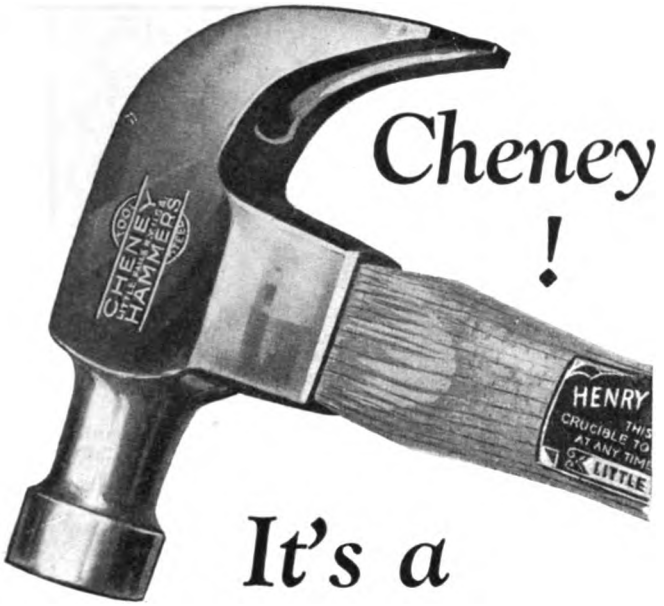
Anchor Brick Machines for hand or power operation are offered for making plain and faced brick, face-up or face-down, ten brick at a time. A third model makes cored brick, seven at a time.

Start with a single unit —add as you grow

For Complete Information Write

Anchor Concrete Machinery Co. Sales Office: Columbus, O. Factory: Adrian, Mich.

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Your first swing will convince you a Cheney Hammer is "there"!

The Cheney has a "hang" you'll rave over from the first — it's just about perfect; a second-growth hickory handle with the famous Cheney "Never-Slip" grip that's formed to fit your hand — and it fits it comfortably, too; a tool-steel head with the ends tempered separately—each for the good hard work it's intended for.

And back of every Cheney Hammer is 90 years of fine hammer making, besides a real guarantee to replace any Cheney that *you* couldn't call a "rip-staving" good hammer.

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106-110 LAFAYETTE ST. NEW YORK CITY
VISE CO.
CHENEY HAMMERS

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It would pay you to equip your kitchens with Kab-Ranges just because of the space it saves. But Kab-Range saves more than space. It saves all sorts of time and steps in cooking; it saves extra cleaning; it saves a wife's youth and energies.

Women see these things at a glance. Builders who install Kab-Ranges have a big advantage when it comes to making sales and rentals.

THE OHIO STATE STOVE & MFG. CO.
Main Office and Factory - - - Columbus, Ohio
New York Office - - - - 415 Lexington Avenue
Los Angeles Office - - - 1507 W. Seventh Street



Kab-Range costs little more than an ordinary gas range. Write for special catalog and price list for builders.

Your Name .....
Address .....

KAB-RANGE

Kitchen Range and Cabinet Combined for Modern Residences and Apartments

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SISALKRAFT

Reg. U. S. Pat. Office

The 20th Century Building Paper

CONTRACTORS like it—
ARCHITECTS specify it—
DEALERS carry it—
CARPENTERS use it—
OWNERS demand it—

BECAUSE

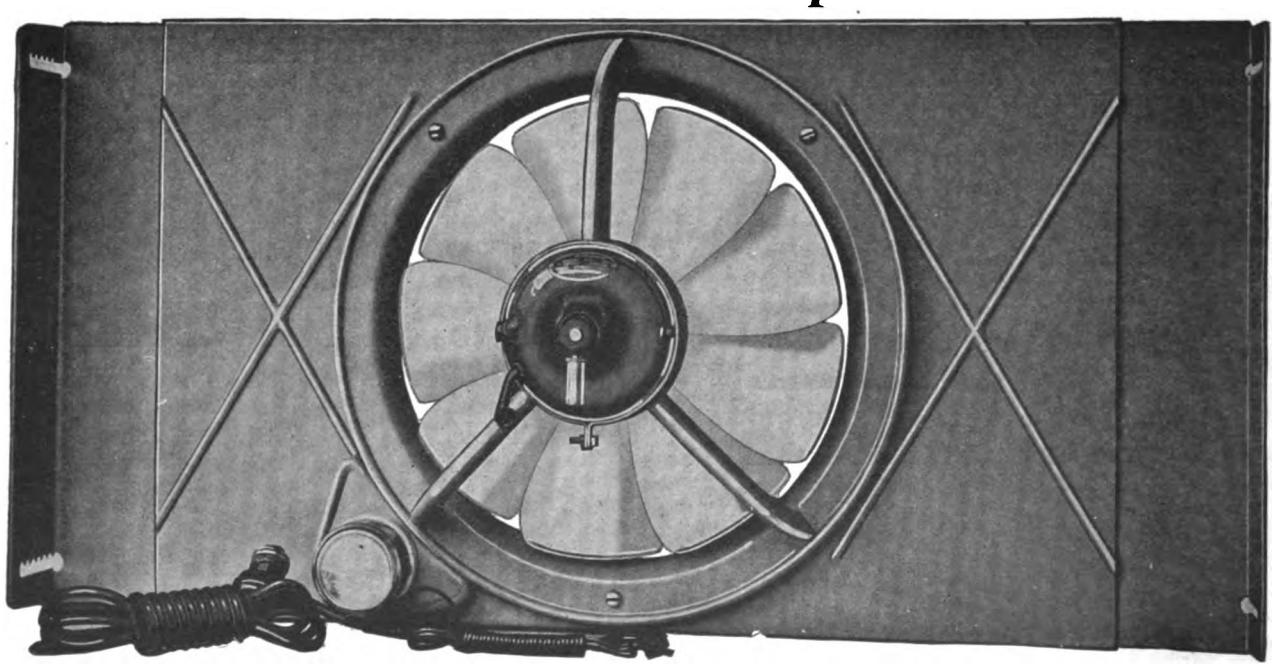
—of its ECONOMY
—of its DURABILITY
—it is PATENTED, cannot be duplicated, and they make greater profits
—it will not tear
—it makes a WARMER and BETTER home

Ask Your Dealer

American Reenforced Paper Company

ATTLEBORO, MASSACHUSETTS

BUFFALO BREEZO helps sell houses



This kitchen ventilating fan is helping hundreds of builders sell homes! It's an accessory that's NEW—and once you show a house with this fan installed you'll see for yourself what a favorable impression it makes.

Easy to install (requires only 4 screws), does not interfere with opening and closing the window, adjustable panel fits all windows. Fan and motor are trouble-proof and rattle-proof. Exhausts from or into the room, as desired.

Write for full particulars and prices.

BUFFALO FORGE COMPANY **476 Broadway, Buffalo, N. Y.**

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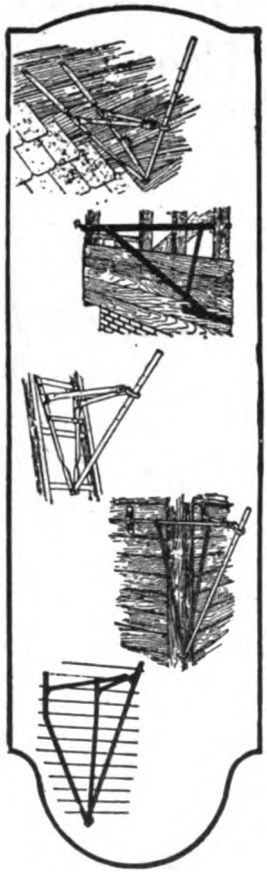
USE SAFE, EFFICIENT, SAVING

Reliable Scaffold Brackets

No holes to plug after they are removed

Stronger and cheaper than costly wooden scaffolding—quickly erected and quickly taken down—Reliable Scaffold Brackets are profit makers on any construction job—wood, brick, stucco.

This Letter Hits The Nail On The Head



Never again a wagon load of lumber for a scaffold.

H. C. SINFF
APPLE CREEK, OHIO
Writes:

"I would not do without them. I would not think of going back to the old way of using a wagon load of lumber for a scaffold. I can scaffold a whole house with them while I would be scaffolding one side the old way."

Send for our illustrated folder describing them. We ship C.O.D. so you can see the brackets, examine their sturdy construction and approve of them before you pay one cent.

Investigate what they will save you before figuring that next job—Up to date methods do pay.

Elite Manufacturing Company
ASHLAND OHIO



From

Maine to California Extra Profits for Builders

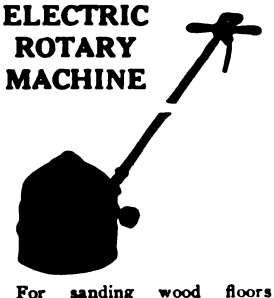
Builders from Maine to California have found floor surfacing with the FREE-O-Dust Super Surfacer a sure-fire method of collecting extra profits. $25 to $40 a day is the average earnings in this business.

Floor surfacing is easy with this modern, electrically-driven machine, and there will always be a steady demand for this work as long as new buildings go up or old buildings have floors to refinish.

The FREE-O-Dust Super Surfacer sands right up to the baseboard—no inconvenient side drum is necessary. All leavings are collected on the forward as well as on the backward movement, so that the air is kept free of dust at all times. This feature makes it possible to resurface old floors without disturbing the occupants.

Get started today on your road to a profitable business. Mail the coupon for complete information and our booklet, "A Day's Work." There is absolutely no obligation.

ELECTRIC ROTARY MACHINE



For sanding wood floors where an exceptionally high finish is required—also for surfacing and polishing marble, terrazzo, etc.; waxing, polishing and scrubbing. A different attachment for each operation.

MAIL

ELECTRIC ROTARY MACHINE CO.,
3833 W. Lake St., Chicago, U. S. A.

- ☐ Please send me booklet, "A Day's Work," giving full information about the FREE-O-Dust Super Surfacer.
- ☐ Please send me General Booklet giving full information about the Electric Rotary Machine.
- ☐ As a contractor, I am interested in making more money.
- ☐ I am interested in going into the floor sanding business.

NAME.....
ADDRESS.....
B.A.—9-26

ELECTRIC ROTARY MACHINE COMPANY
3833 W. Lake St., Chicago, Illinois
Factory, Offices and Main Branch

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Why Pay Six Men For One Man's Job



Every contractor without an American Universal loor Surfacing Machine is increasing his payroll by six men every day he pays for scraping floors by and. Think what it means to your payroll over a period of a year, and what it would mean in profits over the same year, if you owned an American Universal Floor Surfacing Machine.
Every man with an electrically driven

American Universal
FLOOR SURFACING MACHINE

can earn from $25 to $50 a day, year in and year out, as it does the work of six men and earns six men's pay.

WORK EASY TO GET

Not only new buildings but old buildings must have their floors resurfaced to be put in shape. The beautiful, smooth, uniform work which the American Universal Floor Surfacing Machine turns out cannot be equalled by hand scraping or any other method of floor surfacing.

KEEPS THE MONEY ROLLING IN THE YEAR ROUND

The progressive contractor and builder cannot only add $5,000 or more a year to his profits, but can also keep some of his best men busy during dull months making big money for him.

Write today and let us furnish you with full information without any obligation on your part.

The American Floor Surfacing Machine Co.

Originators of Floor Sanding Machines

514 So. St. Clair Street **Toledo, Ohio**

CUT YOUR COSTS-SAVE WORK and WAGES!

$25.00 BRINGS IT TO YOU

REALIZE IT! HAND-SAWING IS COSTING YOU INCOME, REPUTATION!
Why pay out of the profits that should jingle in your own pockets, wages to unnecessary help? Expend vitality, strength in back-breaking hand sawing? Facts are facts. Old methods are costing you too much. Equipped with this Saw Rig bigger success, income, prestige, reputation are within your easy grasp. It has done it for others. Why not for you?

THE "JIFFY" SAW-GASOLINE ENGINE SAW RIG

Simple, efficient, economical. Arbor type saw; moves through lumber; not lumber through saw. Rigid all steel table, top 24x32 in., and frame. Compact, air cooled power unit. Mounted on wheels.

CROSS-CUTS, RIPS, MITERS, — EASY PORTABILITY — POWERFUL GASOLINE MOTOR

Fitted with 8 in. all purpose saw that cross cuts, rips, miters. Takes any material up to 1x15 and 2x12 in. Works up 8000 to 10,000 ft. of lumber a day.

You take it anywhere—to second floor or down in basement. Step on lever and it is raised onto its wheels and moved to any place. Weighs only 225 lbs.

Powerful ¾ H. P. air cooled, gasoline engine, single cylinder, 4 cycle; built in flywheel magneto; simple set jet carburetor. Lever starter. Never misses. Fuel capacity, 1 gallon.



DOES THE WORK OF FOUR MEN FOR 25¢ A DAY!



FREE BOOKLET

Besides doing the work of 4 men and better, it more than pays for itself on the first job. For only 25c a day—a gallon of gasoline and little oil—you can save 85% of hand sawing labor on an ordinary job, save 12% of total cost to owner, and do TEN times more work. Gets you the jobs.

MAIL COUPON NOW!

A. S. ALOE CO., 1820 Olive St,, St. Louis, Mo.
Without obligation, send me FREE booklet, "Sawing With Elbow Grease or Gasoline". Also particulars of your "Jiffy" Saw Rig and details of your Easy Payment Plan.

NAME .....

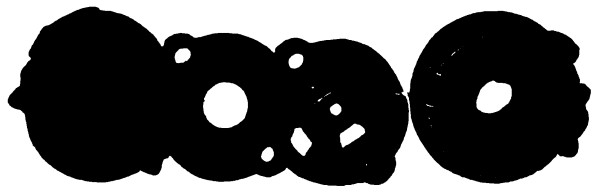
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—INVESTIGATE!

This means much to you. Costs nothing to get valuable booklet of wonderful facts—the 10 Day Free Trial Offer and Easy Payments Plan, etc. This is your opportunity for bigger sucess; maybe the turning point in your career. Don't pass it up!

1820 Olive St. A. S. Aloe Co. St. Louis, Mo.

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The Sections that break up the water and "stagger" the fire travel.

MANY SMALL UNITS

heat more quickly than

ONE LARGE MASS

THAT is the principle which makes the Thatcher Round Boiler the most powerful of all house heaters for rated capacity; in both the number of thermal units transmitted to the water and the length of time between firings.

Staggered Fire Travel



The ingenious construction of the sections shown above and their position in the boiler divide the mass of water into many small parts. They also "stagger" the fire travel, so that the full effect of the heat is exerted below, above and beside each unit.

Less fuel is required than in an ordinary boiler, and the radiators begin to "sing" soon after a fire is started.

Made for steam or hot water heating, there is a type and size of Thatcher Boiler for every requirement.

Printed matter and any further information regarding THATCHER Round Boiler, and our other products, will be sent you on request.

THE THATCHER COMPANY

formerly Thatcher Furnace Co.

Since 1850

CHICAGO	NEWARK, N. J	NEW YORK
241 N. Clark St.	39-41 St. Francis St	21 W. 44th St.

THATCHER
BOILERS-FURNACES-RANGES



"the best grade of Oak Flooring —throughout"

Azel Meadows, realtor-builder in Huntington, W. Va., says his prospects want homes that are well-built, of products nationally recognized to be standard. Liveability and quality are two essentials. How well oak flooring meets these requirements is proved in this typical Meadows' subdivision home, in which only the best grade of oak flooring was used throughout.

Oak floors satisfy the desire for beauty, dignity and harmony. Their long life and wearing qualities make them an investment, increasing in value as time improves their mellowness and beauty. The cost, compared with temporary perishable floor coverings is negligible.

Color Finishes express Individuality

How modern color finishes add distinction and conform to decorative schemes is explained in "The Story of Oak Floors," a 24-page illustrated booklet, free.

Free literature

We will supply you with illustrated literature to show prospects. Also technical booklets for your use, with grading rules, standard measurements, proper handling, laying and nailing, etc.



Mail this coupon

OAK FLOORING BUREAU
841 Hearst Building, Chicago

Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

Name .....

Address .....

City ..... *State* .....

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"I am well pleased with my 'Trouble Savers'. I have four sets of them and can say that they have paid for themselves ten times over and are just as good as ever."

C. E. Newcomer,
Dayton, Ohio.

"Paid for Themselves Ten Times Over"

Mr. Newcomer's letter shows the result of using TROUBLE SAVERS, but the *cause* lies in the many time and labor-saving features of TROUBLE SAVER Trestles.

TROUBLE SAVERS outlast countless sets of wooden scaffolds. Where one set of wooden scaffolding is good for only one job, TROUBLE SAVERS can be used on every job for ten years or more—frequently paying for themselves on the first job.



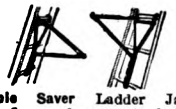
Trouble Saver Adjustable Trestles are furnished in six different sizes that give a range in height by 3 inch lifts from 16 inches to 10 ft. Can be set up and adjusted to the exact height desired in a few seconds.



Trouble Saver Carpenter Bracket. Hooks around the studding and stands firmly on two legs. Will support a ton weight. Far superior to any other method of supporting scaffolding on small buildings.



Trouble Saver Stucco Bracket is quickly attached with four nails. Stands firmly on two legs.



Trouble Saver Ladder Jack. Gives firm, safe support whether adjusted above or below the ladder. Rests on three rungs.



Trouble Saver Asphalt Shingler for composition shingles.

Trouble Saver "Snapping Turtle" Shingler for wooden shingles.

We also make **Trouble Saver** Sectional Steel Scaffolding for use on high buildings.

TROUBLE SAVERS can be erected and dismantled in less than one-fourth the time required for wooden scaffolding—resulting in a saving which allows you either to make more profit on each job or to bid lower to get it.

There is also the factor of greater safety. TROUBLE SAVERS are much stronger than wooden scaffolding, and your men *feel* this greater safety—thus giving them more confidence and putting them in a spirit to do better work.

You can fold up TROUBLE SAVERS as you would fold up a jack-knife and store them in any small out-of-the-way corner.

We will gladly furnish you with prices and full information. Mail the attached coupon today.

The Steel Scaffolding Co.

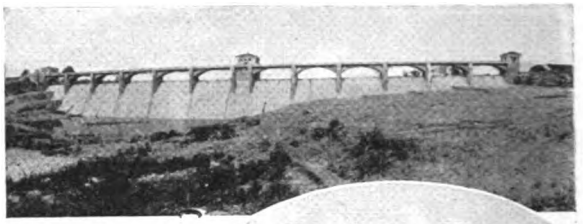
Evansville, Indiana

THE STEEL SCAFFOLDING CO.,
Evansville, Indiana.
Please send me complete information on your *Trouble Saver* Steel Scaffolding and also information about your special 30-day trial offer.

NAME .....

STREET .....

CITY ..... STATE .....







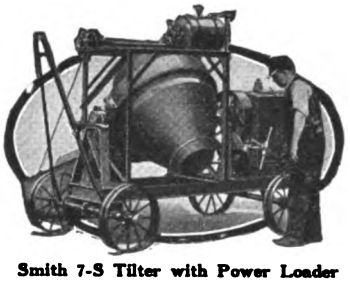
The Life of a Smith Is One Big Job After Another —

Two 28-S Smith Tilters—originally sold in 1920 to The Thompson-Sterrett Co., for use on the Fisher Body Plant, later used by the same company on the O'Shaughnessy Dam, and then sold to The Carmichael Construction Co., of Akron, for use in The Goodrich Tire Factory. Fisher Body Plant shown in oval inset.

Smiths are not sold—nor are they bought—just for one job. We know—and our customers know—that when a Smith leaves the factory it is ready for a long life of dependable, low-cost usefulness. No matter how big or how long its first job, it is ready to go on to the next, and to deliver the same speedy maximum production as when it poured its first batch.

Instance after instance can be quoted of Smith Mixers sold years ago—many of them ten, fifteen, twenty and even twenty-five year old—that are still performing to the unqualified satisfaction of their owners.

They are definite, undisputable proofs of the skilled design and quality construction demanded by Smith standards.



Smith 7-S Tilter with Power Loader

Let us send you a copy of Catalog 500 *fully illustrating and describing the entire Smith line.*

The L. T. SMITH COMPANY

1028 32nd St., Milwaukee, Wis.

Sales Offices and Service Stations in Principal Cities

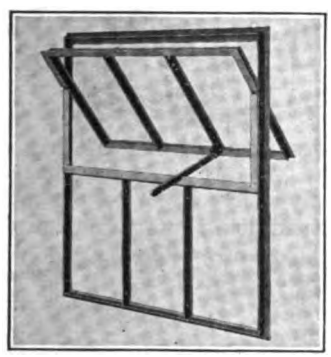
Smith Tilting Mixers are built in the following sizes: 2½, 3½, 5, 7, 10, 14, 21, 28, 40, 56 and 112 cu. ft. per batch; Smith Non-Tilting Mixers: 7, 14, 21 and 28 cu. ft. per batch; Smith Paving Mixers: 27-E.

SMITH MIXERS

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Bayley Window for basement.



Bayley Utility Window.

A Profit Opportunity

Bayley-Springfield Steel Windows

BAYLEY-SPRINGFIELD Steel Windows are easily sold wherever they are shown. Construction features make for strength and economical installation. Requires less time and labor to install than wood windows and therefore profits are greater. Quantity production makes it possible to price at very close figures.

Windows for Basements

For basements in residences, apartments and other buildings. Just the window for side walls in garages and other small buildings. Cost no more than wood, yet give 50 per cent more light—are fire-proof; resist burglar entrance; do not warp, stick or sag. Holes in steel jambs for screens. Made in four standard sizes.

Utility Windows

This Utility Window is moderate in cost. Usable in buildings of many types and for many purposes. Ideal for garages and similar small structures. Ventilators center pivoted. Each unit has four lights 12 x 20 and two lights 13 x 20.

Ventilator is equipped with standard Bayley-Springfield Lock Bar which holds ventilator in any desired open position and also locks it when closed.

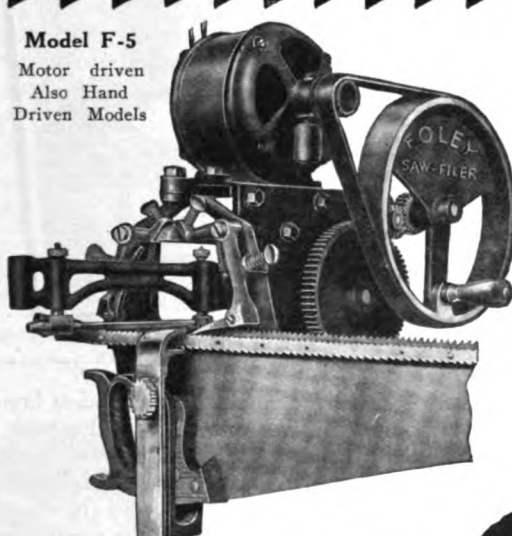
Write us for dealer attractive proposition.

The Wm. BAYLEY COMPANY

126 North Street, Springfield, Ohio

Sales Agencies in Principal Cities.

Model F-5
Motor driven
Also Hand
Driven Models



Let the Foley Filer Pay for Itself

"I am having good success with the Foley Saw Filer. It has paid for itself twice in the three months since I got it. I have all the work I can do evenings. I have all the way from two to eight saws every evening."

WM. BARNETT,
143 Villard Avenue, No. Milwaukee.

FOLEY AUTOMATIC SAW FILER

—is a money maker on every job. It files saws 6 times as fast as by hand. Saws cut better and follow truer. Men do more and better work. You profit by the time saved. And you don't take a chance either because—

IT'S GUARANTEED

Put the Foley to work on your jobs for 30 days. Let it demonstrate the time and labor it saves. If, for any reason, you are not satisfied—return it and the purchase price will be refunded. Mail this coupon now!

$10 BRINGS IT TO YOU

THE ONLY MACHINE THAT FILES ALL YOUR SAWS!

Hand Saws—Back Saws—Band Saws (¼" to 4½")—Circular Saws (4" to 16") 3 to 16 points to the inch.

"I sure have done some fine work with my machine. There is nothing that can beat it. It saves your eyes. It saves files, it saves time, and beats the most expert saw filer in time and accuracy."

H. P. MEYERS,
Burlington, Iowa.
Feb. 27, 1926.

"Have received the Filer and am doing fine. Let me tell you right now it is a good deal better than you represent it to be. I never saw anything to beat it. I am more than pleased with my investment and will not fail to show it up."

L. J. DE MERS,
225 Rindge Ave. N.,
Cambridge, Mass.

FOLEY SAW TOOL CO.,
158 Foley Bldg., 916 E. Lake Street,
Minneapolis, Minnesota.

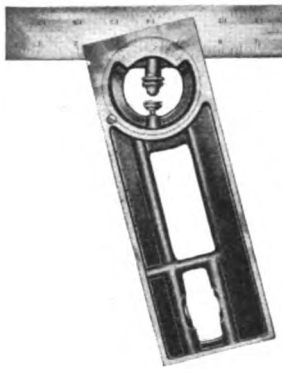
Please send me complete information about Foley Saw Filers.

Name .....

Address .....

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How's this?

Not only 7 distinct tools in one, but some distinct advantages over each one of the 7 tools it replaces.

STARRETT COMBINATION TOOL NO. 439

F'r instance: Ever wish you could shorten the beam of your try-square so's you could get into a corner? Well, you can with a No. 439.

Ever get tired of laying out valleys and hips with a try-square? It's a snap with a No. 439—all you got to do is to set the blade to the desired pitch and go ahead.

Ever get tired of having one end of the try-square sticking out of the top of your chest? A No. 439 can be folded up.

And in addition, you can use the No. 439 as a Level, a Plumb or a Depth Gage.

Ask your dealer to show you one. Write us for descriptive matter and catalog No. 23-P.

THE L. S. STARRETT CO.

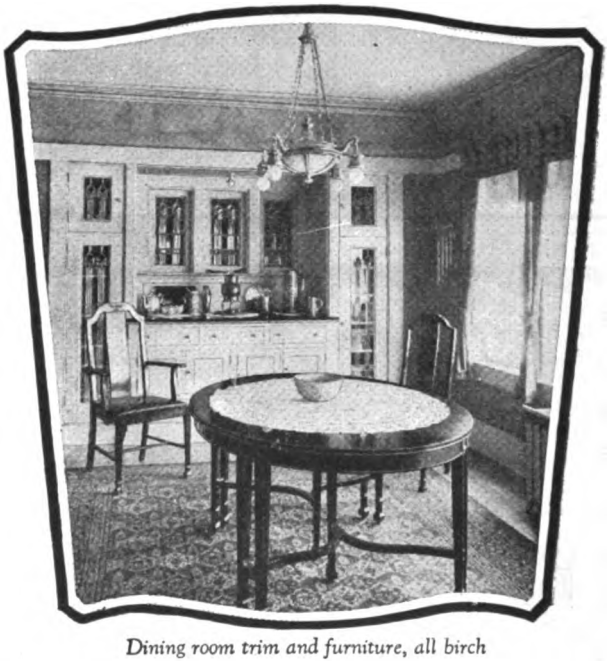
World's Greatest Toolmakers
Manufacturers of Hacksaws Unexcelled
Steel Tapes—Standard for Accuracy
ATHOL, MASS.

104





interior trim, doors, floors and paneling assure that elegance, permanence and mar-proof hardness of interior finish, which not only reflect credit on the architect and builder but satisfy their clients' practical demands.



Dining room trim and furniture, all birch

Northern **birch** is equally adaptable to the modest home or finest office building. It gives excellent results with any stain, is unrivaled for enamels and exhibits rare beauty in natural finish. Its extreme hardness makes **birch** unexcelled for floors, waxed, varnished or stained. **birch** rotary-cut veneers are noted for their enduring elegance—the dense, close grain of **birch** prevents the tendency to checking, common to some woods.

Write us your experiences and ask us particulars. We are here to help you in every way.

THE BIRCH MANUFACTURERS

229 F. R. A. Building **Oshkosh, Wisconsin**



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Luxury Does Not Always Incur Additional Cost!

FEATURES imparting luxury in the home have big value and a mighty favorable influence upon a builder's reputation for giving satisfaction.

Bathrooms, recognized by modern-day builders to be of most importance, present excellent opportunity to add both beauty and luxury. Those builders installing Kenney Showers, provide a luxury in harmony with the finest bathroom appointments. The cost is not prohibitive. In fact, it is frequently below estimates which include just an ordinary shower.

That's the *way* with Kenney Showers. They're economical in installation as well as in space and water consumption.

Then too, with Kenney Showers, there is that much-to-be-considered appeal to women as well as men.

We would like to tell you more about Kenney Showers.

May we send you a catalog?



THE
Kenney-Cutting Products Corporation
507 Fifth Avenue, New York
Dept. B.A.

The Kenney-Cutting Products Corp., 507 5th Ave., N. Y., Dept. B.A.

Please send me information on KENNEY BODY NEEDLE SHOWERS for

☐ Residence ☐ Hotel ☐ Apartment
☐ Club or Institution

I am
☐ Architect
☐ Builder
☐ Home Builder

Name .....
Address .....
City .....

Packo STORAGE SYSTEM

Automatic Storage System

delivers piping hot water in any quantity at full city pressure from any or all hot water faucets day or night.

Yet it does not burn a single unnessary foot of gas.

The "Klixon" thermostat which regulates the flow of gas turns it on only when the temperature of the water falls below a certain predetermined heat.



The Packo is shipped completely assembled, leaving only three connections to be made by your local plumber.

Riverside Boiler Works, Inc.,
Cambridge, Mass.

Send me your booklet —
"Hot Water service for the home."

Firm name

Address

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MISSISSIPPI - WIRE - GLASS - CO.
FIRE RETARDANT No. 32



STANDARD OIL BUILDING
San Francisco
Geo. W. Kelham, Architect

Mississippi Wire Glass Co.
220 FIFTH AVENUE, NEW YORK
Chicago St. Louis



When a Big Realtor Builds what floor does he specify?

A. C. Steere is the most prominent realtor in north Louisiana. Aside from his ability in directing big real estate projects, he is well versed in architecture.

His new home on Ockley Drive, in South Highland, Shreveport, was constructed from plans drawn by himself. Naturally, he was careful to select an oak flooring that would be in keeping with the character of such a house.

Throughout, 13/16 x 2¼ clear quartered white oak was used. Mr. Steere was well acquainted with the advantages of having "Perfection" Brand Oak Flooring laid.

Milling, grading and inspection play an important role in oak flooring. The finish, pattern and matching depend on how perfectly these three are carried out at the mill. Mr. Steere's floor is beautiful to look upon and will retain this beauty generations from now. Yet it cost him no more than a number of other brands.

There's a size and grade of "Perfection" Brand Oak Flooring for every type of structure, new or old. For full information, write today.

Arkansas Oak Flooring Company
Pine Bluff, Ark.

Specify PERFECTION BRAND OAK FLOORING

"PERFECTION"
Brand Oak Flooring

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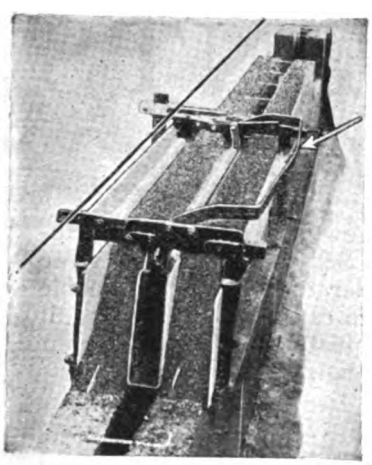
Some of 100 houses on the Cambria Steel Company's Johnstown subdivision.

Bill Says: Only "Better Than Ordinary" Houses Sell Today

SALES on Wallbuilder jobs are always booming. Before the house is finished Wallbuilder at work attracts a crowd of prospects. They see insulation *built in* and know it means a coldproof, heatproof, damp-proof, fireproof house. It takes the job out of the run of ordinary construction and makes an easy sale for you. Insulation's your talking point; your profit's in lower construction costs. Imagine —no furring, lathing, or scratch coat plaster! And a heating plant 20% smaller! It's the unbroken air space does it.

Dealers: Write for Information

The Van Guilder Wallbuilder shown in place on walls is filled with semi-wet concrete and tamped. Lever indicated by arrow is then lifted, which collapses the center core and expands the outside plates, thereby freeing the concrete on all sides. The Wallbuilder is then instantly slid forward. A foot of wall a minute.



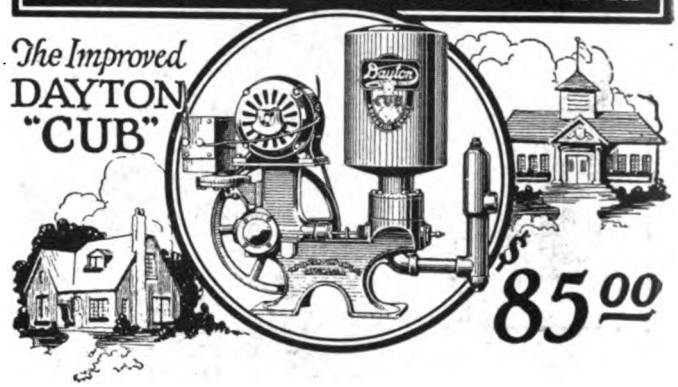
Van Guilder System Concrete Bldg.

15 East 40th Street **New York**

Tell me what the VAN GUILDER WALL-BUILDER can do for me. Local costs are—
Cement ..... per bbl.
Sand ..... per cu. yd. Aggregate ..... per cu. yd.
Labor ..... per hr.
Name .....
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PRIVATE WATER SYSTEMS

The Improved DAYTON "CUB"



Choose Only a High Quality Water System

THE water system you install is as important as the foundations, the walls or the roof. Whether it's a modest residence, a resort hotel or a country club—whether it's a house built for sale or for a client, the water system must be dependable and efficient. And that's what DAYTON Pumps and Water Systems are—*dependable and efficient.* Positive in action and trouble-free, they deliver a generous and unfailing supply of running water. Built in a wide range of capacities and prices that fill any demand.

DAYTON Pumps are easy to install—represent a comparatively low first cost—and can be operated for only a few cents a day. They are built by engineers who are pioneers in the home water system field; and every DAYTON unit is backed by a broad guarantee of complete satisfaction. For rock-bottom value—lasting satisfaction to both builder and owner—and outstanding economy in operation, get the facts about DAYTON Pumps. The coupon below is for your convenience.

THE DAYTON PUMP & MFG. CO.

DAYTON, OHIO, U. S. A.



We have put all data on DAYTON Water Systems into our booklet, "Dependable Water Service," which also contains most interesting and practical information for both builders and architects. Your copy is ready for you—free. Just give this

MEMO TO YOUR STENOGRAPHER

Miss ..... Please attach the coupon below to our letter head and mail today.

"Dayton" Pumps

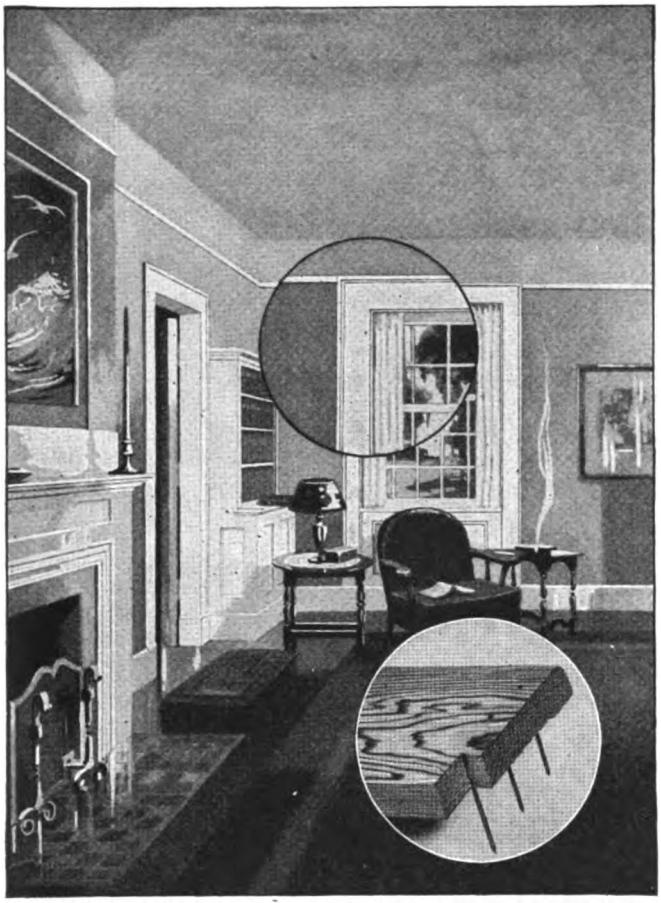
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Please send at once my copy of "Dependable Water Service."

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SATIN-LIKE INTERIOR TRIM

Mitres stay tightly joined because the wood is scientifically dried and properly seasoned. Nails may be driven near the end without splitting. Wood almost closes over counter-sunk nails.

Tough fibre, close grain, fine texture, no pitch, even absorption of enamels and stains, no discoloration nor raised grain; painter works on wood itself and not upon a crust of shellac.

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SEDGWICK OUTFITS FOR PERMANENT BUILDERS

2 NEW SEDGWICK IMPROVEMENTS

In Dumb Waiters

We announce an important advance in vertical transportation equipment through the perfecting of Type "FDCG" Sedgwick Geared Automatic Brake Dumb Waiter.

Machine Cut Gears have replaced cast gears and a Full Diameter Hoist Wheel permits the cable to drop direct to both car and counterweight.

These two new improvements, exclusive with Sedgwick, make Type "FDCG" easier to operate and double the life of the car cable. Moreover, it is **easier to install,** thus saving time and labor, because the number of parts is reduced.

There are five standard sizes, from 20"x16" to 36"x36", carried in stock at our factory. Special sizes furnished in four days.

Special Service for Contractors
Includes Blueprints, Illustrations and Specifications.

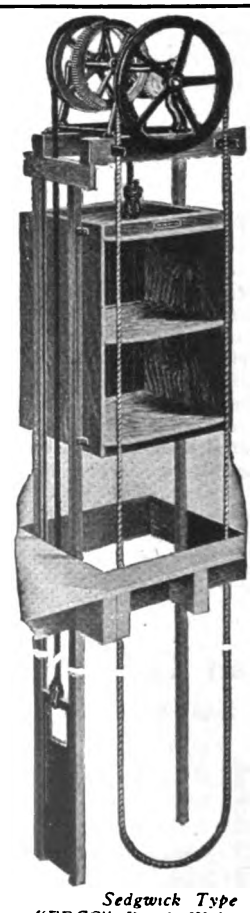
SEDGWICK MACHINE WORKS
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Sedgwick Machine Works,
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Please send full information on Dumb Waiters, Freight Elevators, Trunk Lifts, Invalid Elevators, Sidewalk Elevators and Gravity Drops.

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PENBERTHY PRODUCTS



The Improved Model "R"

Automatic Cellar Drainer

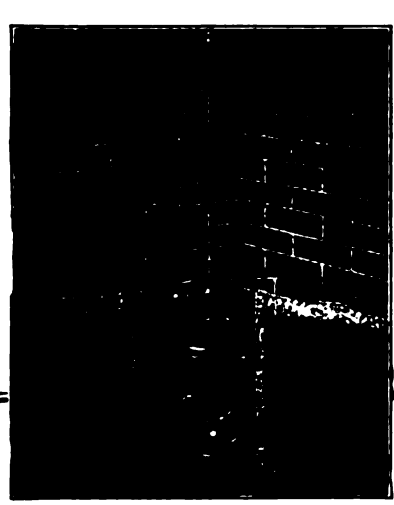
Because it is economical in operation, easy to install, and adaptable to a wider range of jobs than any other cellar drainer on the market, it is

A Fast Seller!

After installing a Penberthy you can forget it—because it is practically 100% trouble-proof. You won't be called back for service.

Your Jobber Can Supply You

PENBERTHY INJECTOR COMPANY
Established 1886
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The Republic Building, Denver, Colo., a building designed especially for occupancy by doctors and dentists. GF Steel Joist construction throughout. C. Meredith Music, Archt., Denver. Ditton and Kendall, Contr's., Denver. E. Burkhardt & Sons Steel and Iron Works Co., Steel Contr's., Denver. S. W. Straus & Co., Financing.

STEEL JOISTS Approved by S. W. STRAUS & Co.

LEADING builders the country over employ GF Steel Joists and the approval of this GF Product by so well known a financial organization as S. W. Straus & Co. is further testimony to the dependability and economy of GF Steel Joist floor construction for light occupancy buildings. With these Steel Joists, erection can proceed with amazing speed, several floors can be constructed at once, and no special machinery is needed The fire safety, extra rigidity and soundproofness gained with GF Steel Joists recommend them for all commercial, public and residential buildings. Send for a copy of The Fireproofing Handbook.

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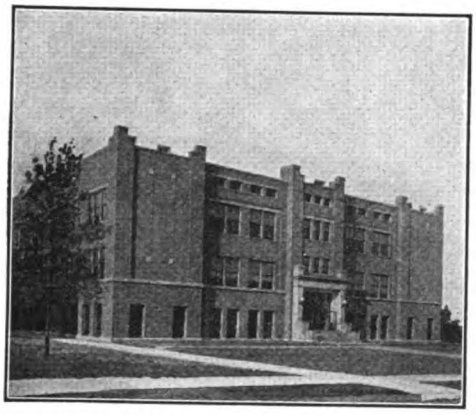
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Peds
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MARTIN BOOTS SCHOOL, MARION, IND.
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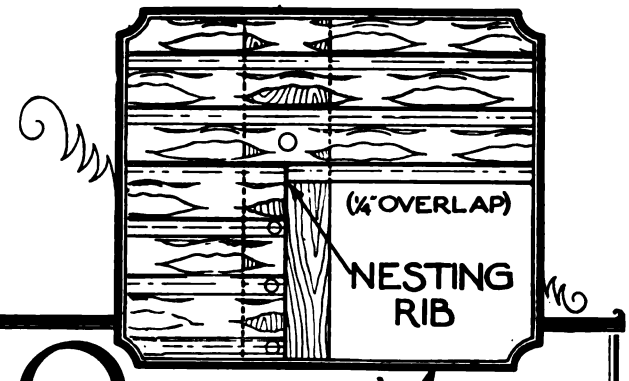
Beauty and Service

SCHOOL BUILDINGS are being made ever more beautiful and durable, to satisfy alike the student who uses them and the public that pays for them. In an increasing number of such structures, the walls are laid up with Kosmortar — *The Ideal Cement for Masonry.*

A Product of
Kosmos Portland Cement Co.
Incorporated
Sales Offices: Louisville, Ky.
Mill: Kosmosdale, Ky.



KOSMORTAR
A MASON'S CEMENT



Questions & Answers about METAL LATH—

[No. 5 of a Series]

In applying metal lath, what provision is made for joining adjacent sheets?

Standard specifications for expanded metal lath call for a minimum of ¾" overlap.

What does this mean in excess yardage required?

If edges were always true and workmen always economical, it would mean only about 3 per cent of overlap loss.

What are the actual overlap losses?

Uneven stretching of expanded lath in manufacture sometimes means that the overlap varies from a minimum of ¾" up to 3" or more in the wide spots. Hence actual overlap losses may vary from 4 to 12 per cent. Eight per cent is a common allowance.

Do all kinds of metal lath call for the same overlap allowance?

No, Bostwick "Truss-Loop" Metal Lath is overlapped only the width of its nesting rib, about ¼".

What is the reason for this distinction?

Its greater stiffness minimizes the need of overlap.

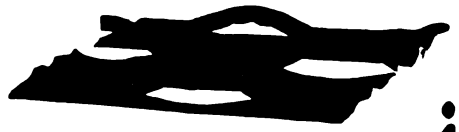
Can the joint be made accurately within such close tolerance?

Yes, Bostwick "Truss-Loop" Metal Lath comes in the original dimensions of the sheet —a true rectangle.

The Bostwick "Truss-Loop" Lath is not stretched?

Neither in manufacture nor in application. The workman's task is to place it, not pull it. No lath product on the market can be applied with greater rapidity.

THE BOSTWICK STEEL LATH CO.
NILES, OHIO



Member of National Council for Better Plastering

Bostwick
TRUSS-LOOP
METAL LATH

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"There is a Kimball built to suit your requirements"



Light Electric Elevators

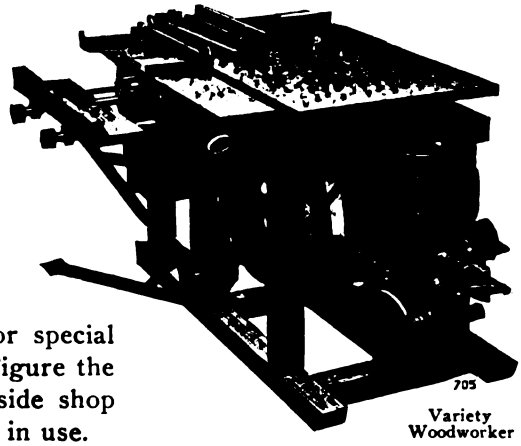
These machines come in three speeds and capacities. They give the service of the more expensive elevators and are easily and quickly installed wherever there is electricity.

Write for detailed information on KIMBALL'S LIGHT ELECTRIC

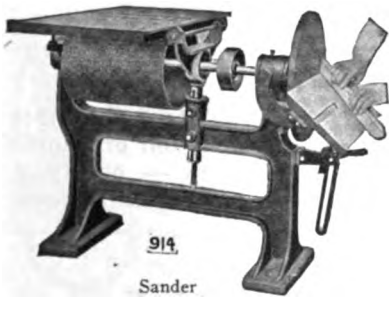
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1106-22 Ninth Street
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It will pay YOU its COST on almost every job

This Portable Variety Woodworker is paying its purchase price on almost every contracting job where it is used. Very often it saves its cost on the first job tackled. With it you can do any woodworking operation of either a routine or special nature right on the job. Figure the savings over hand or outside shop work! Hundreds are now in use.



705
Variety Woodworker



914
Sander

This one machine may be used as a rip, band or cut-off saw, as a dado, gaining, grooving, rabbeting, tenoning or boring machine, as a jointer or planer, a matcher, molder or sander, and as a hollow chisel mortiser. Let us send you our Bulletin No. 82, which describes this and other cost cutters. Use the coupon below.

Mail this coupon today

AMERICAN
SAW MILL MACHINERY CO.

MAKERS OF WOODWORKING AND SAW MILL MACHINERY

61 MAIN STREET HACKETTSTOWN, N. J.

The American Saw Mill Machinery Co.
61 Main St., Hackettstown, N. J.

Gentlemen:
I am interested in the machinery described in your Bulletin No. 82. Please mail me a copy at once.

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PARKS
WOODWORKING MACHINES



Cabinet Shop Special

$290

with motor

See this Parks *this month*

September and October are "Parks Cabinet Shop Special Months" with Parks dealers everywhere. In their showrooms this wonderfully popular woodworker will be on display and in many instances in actual operation.

Parks Cabinet Shop Special No. 10 at $290.00 is the handiest machine Parks ever built! Big enough to turn out first-class work—small enough to fit in a small shop or your basement—a real machine built for real work without freakish "stunt" designing. It makes practically any cut and includes rip and cut-off circular saw, jointer, and band saw. Lathe and shaper may be added at small extra cost. Every man who does cabinet making or woodworking of any kind wants this splendid machine. It is the biggest woodworking machinery value on the market today. Be sure to see this Parks this month.

in these dealers' showrooms

ALA.: Moore, Handley Hdwe. Co., Birmingham; McGowin-Lyons Hdwe. & Supply Co., Mobile; Alabama Mchy. & Supply Co., Montgomery. ARK.: Ben D Schaad Mchy. Co., Little Rock. CAL.: Shaw-Palmer & Bakewell Co., Los Angeles; Harron-Rickard & McCone Co., San Francisco. COLO.: H. W. Moore Equipment Co., Denver. CONN.: Lunt, Jillson Co., Manchester. FLA.: Cameron & Barkley Co., Jacksonville; Cameron & Barkley, Miami; Cameron & Barkley, Tampa. GA.: R. S. Armstrong & Bro. Co., Atlanta. ILL.: Woodworkers' Tool Works, Chicago. KY.: Roy C. Whayne Supply Co., Louisville. LA.: Clark D. Shaughnessy Co., New Orleans. MASS.: Lunt, Jillson Co., Boston MICH.: Riverside Mchy. Depot, Detroit; McMullen Mchy. Co., Grand Rapids. MINN.: Baymer Hdwe. Co., St. Paul. MO.: Standard Tool & Supply Co., Kansas City; S. T. Hatcher & Co., St. Louis. NEB.: Diehl Mchy. & Supply Co., Omaha. N. Y.: Interstate Mchy. Co., Troy; Chas. E. Mapps, 178 Lafayette St., New York City. / N. H.: Brackett & Shaw Co., Somersworth. N. CAR.: Amer. Hdwe. & Equip. Co., Charlotte; Raleigh Iron Works Co., Raleigh. OHIO: J. C. Baker, Columbus. OKLA.: Universal Supply & Mchy. Co., Tulsa. ORE.: Portland Mchy. Co., Portland. PA.: K. O. Ditmars, Bourse Bldg., Philadelphia; Coblentz Tool & Supply Co., Erie. S. CAR.: Cameron & Barkley Co. Charleston. TENN.: Peglar Mchy. Co., Chattanooga; Iddins Mchy. Co., Knoxville; Harvill Supply Co., Nashville; Carriage & Wagon Supply Co., Memphis. TEX.: Universal Supply & Mchy. Co., Amarillo; Southern Implement Supply Co., Dallas; Don A. Carpenter & Co., El Paso; Peden Iron & Steel Co., Houston; Peden Iron & Steel Co., San Antonio. UTAH: Salt Lake Hdwe. Co., Salt Lake. VA.: James McGraw, Inc., Richmond. W. VA.: LeLance Equip. Co., Huntington. WIS.: Shadbolt & Boyd Co., Milwaukee. WASH.: Union Mchy. & Supply Co., Seattle. FOREIGN: Sipe Mchy. Agency, San Jose, Costa Rica; P. I. Zayas, Havana, Cuba; Weir Mchy. Co., Vancouver, B. C.; Morris, Black & Matheson, Ltd., Auckland, N. Z.; West India Mchy. & Supply Co., San Juan, P. R.; Bourneval & Co., Montreal, Can.; Engineering Supply Co. of Australia, Ltd., Brisbane, Australia.

See this Parks by all means! If you can't, then write us for circular No. 10 and the new Parks catalog.

The Parks Ball Bearing Machine Co.
Cincinnati, Ohio

Canadian Factory: 200 Notre Dame East, Montreal, Canada

Douglas Fir Facts

Advantages

Douglas Fir is practically impervious to water, holds nails firmly, is strong, takes stains well in any shade or color, and combines beauty, utility and durability.

Edge Grain

Rift sawed or edge grain stock is most serviceable. The amounts of edge grain stock produced in Douglas Fir is many times that obtainable in any other wood.

Stacked Without Sticking

Donglas Fir timbers may be stacked solid for storage; being practically all heart, no harm results.

Variety

Douglas Fir is suitable for a greater variety of uses than any other wood.

Kiln-Dried

Long-Bell dry kilns at Longview, Wash., are of the latest design, having the largest capacity in the Pacific Northwest, and the kiln drying is scientifically controlled, which assures properly cured lumber.

Straight Dimension

Long-Bell trade-marked Douglas Fir dimension stays straight, and flooring, ceiling and siding do not have to be forced to make tight joints.

Trade-Marked

Long-Bell Douglas Fir lumber and timbers are trade-marked as identification of unusual thoroughness in manufacture — plus more than fifty years' experience as lumbermen.

LONG-BELL
Trade Marked LUMBER

Douglas Fir Lumber and Timbers; Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties, Guard-Rail Posts, Piling; Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors; Box Shooks.

KNOW THE LUMBER YOU BUY

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4 Features
found only in
BROWN DISAPPEARING BEDS
(Pivot Door Type, Recess Wall and Roller Type)



Brown Adjustable Recess Wall Bed.
Model 23 (Cleburne Design) Twin Sizes. Beds pulled flush with front of closet.

1—All Brown Beds have the superior features of the third rail between and parallel to the side rails. It forms an extra brace for the end angles to which the springs are fastened and keeps them taught, so that they can not sag. Soft top coil spring also furnished.

2—Another feature that no other roller bed has is found in the Browning Pintle Point Felt Casters. These casters have solid felt rollers which cannot mar the finest rug or finished floor.

3—Interlocking knuckle joints found only in Brown Beds. Supports under foot piece automatically fall into place when bed is lowered and lock in position. Cannot be jarred or pushed out of horizontal position. It is the only bed having this feature.

4—Only bed with full length spring that can install in stock doors—2'6" x6'8" or 2'8"x6'8".

Brown Beds are helping to solve the problem of high costs. Architects, Builders and owners are requested to write for complete information and prices on various models.

We have a full line of models and designs. Write for complete catalog.

DETACHABLE
BROWN BED CO
DISAPPEARING

202-3-GLOYD BLDG KANSAS CITY, MO.

MAKE MORE MONEY-BE A BIGGER BUILDER

Successes of Life are for those who reach out for them. YOU can have them for saying, "I WILL." Will you?

Are you content to make a small profit slowly on hand labor or—a large profit quickly by means of a modern machine?

$25.00 BRINGS IT TO YOU
A YEAR TO PAY

Let The "Magic" Mixer- Mix Your Concrete



Does It Faster—Better—Cheaper

This mixer puts you in the position to do all kinds and classes of concrete work. It lifts you out of the old, expensive shovel and mixing board method, enabling you to work faster, to do more work, to do bigger work, to do better work and cheaper with a bigger profit on every single job.

The Best Mixer On The Market

The most practical and efficient Mixer in America. With the "Magic" and two men you can do as much work as you formerly did with six men. You can do it easier, quicker and better, producing an absolutely uniform batch every time. Loads and dumps from either side. Mixes 4½ to 5½ cubic feet per batch—can be speeded up to a batch a minute—over 2,000 cubic feet per day. Mechanically simple yet perfect. Fitted with 2½ horse power, 4 cycle horizontal type gasoline engine. Powerful, reliable, economical—requires only 2 gallons of gasoline a day. Protected by all-steel housing. Two doors at rear makes it easy to get at. Comes complete ready to take out on the job the minute it arrives. Nothing complicated—nothing to get out of order. Can be operated by any one who will read the simple directions which accompany each machine. Mounted on steel wheels. Guaranteed to give satisfaction.

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CONCRETE ROAD TO SUCCESS

Get It On Free Trial
Just $25.00 brings it to you on 10 Days Free Trial; should you not be perfectly satisfied return it and get your money back.

Easy Terms
If you keep it, you have 10 months to pay—while the "Magic" is making you money faster than the easy payments come due.

INVESTIGATE-THIS MEANS MUCH TO YOU!

The road to bigger profits, bigger business, bigger success is open to you The opportunity to make yourself a big man is before you. Don't sit idly by while other men are forging to the front. Get the facts. The simple act of signing and mailing this coupon may be the turning point in your career. The time to act is NOW.

1820 Olive St. **A. S. ALOE CO.** St. Louis, Mo.

SEND COUPON NOW

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The Road to Good Stucco

The straight road to success with stucco depends on two very simple things.

First — Select the right stucco. That's Rocbond—the plastic magnesia stucco material that's *standardized.* Anything that can be done with good stucco can be done with this enduring material.

Second—Apply it correctly. Our specifications are as easy to understand as A. B. C. and when Rocbond is applied as specified success is assured.

The new illustrated edition of "Homey Homes," which deals with stucco in general and Rocbond in particular, together with our specifications and Colortone folder will be sent to anybody interested in better stucco.

The Rocbond Co.

Van Wert, Ohio
Harrisburg, Pa. Cedar Rapids, Ia.

Write the plant nearest you.

ROCBOND



Here's the way to handle Concrete—

Get a Ransome Monkey-on-a-Stick. Within its limits it does everything that a tower will do, it costs a whole lot less and it certainly cuts the cost of handling concrete—and other materials, too.

The Material Elevator Platform runs on the same mast and at the same time as the Concrete Hoist Bucket and the Elevator Platform may be run to the same floor level as that for which the bin is set. It certainly provides the economical way to handle materials and concrete.

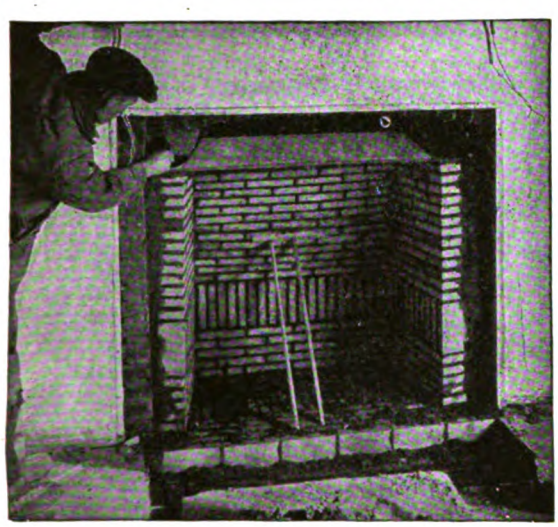
If you're interested in reduced costs send for Bulletin 115 A—it's worth reading.

Ransome Concrete Machinery Co.

Main Office and Plant: Dunellen, N. J.
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Complete Stock and Service
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Building Better Fireplaces



Where to Place the Fireplace Damper

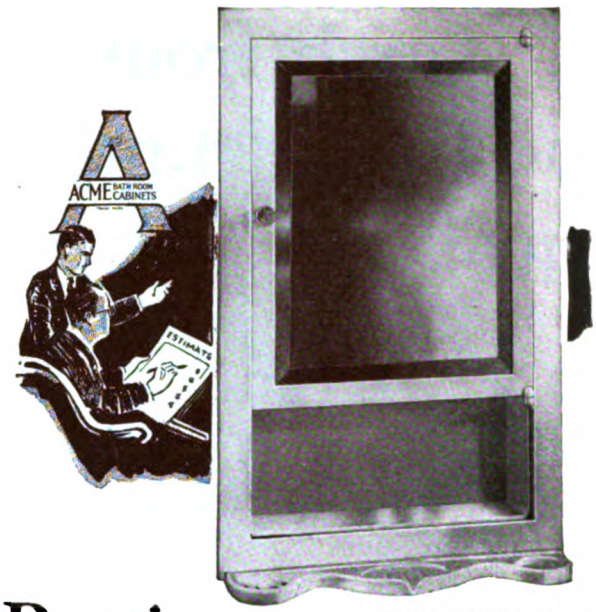
IN suggesting the best possible position for the damper in the fireplace, Donley Fireplace Plans concur with the U. S. Dept. of Agr. Bulletin No. 1230 and recommend that it be placed one to three courses above breast line of opening and at the front of the fireplace, the front flange of the damper in the face brick, the sides resting on the splayed side walls and the rear flange on the forward sloping rear wall. The position at the front of the fireplace permits of a good smoke shelf immediately back of the damper. The higher position offers greater security against smoke eddies.

The question of where to place the damper and why, is fully discussed in the Donley Book of Fireplaces. This book also gives complete plans, designs, illustrations and descriptions of Donley Fireplace Equipment including the Donley Damper with its smooth metal throat that, together with proper construction, prevents smoking.

The Donley Book of Fireplaces is sent free to all interested. Donley Catalog is also sent if requested.

The Donley Brothers Co.
13920 Miles Avenue • • Cleveland, Ohio

DONLEY DEVICES
Complete the Home



Acme Steel Bath Room Cabinet, Model B, with tooth brush rack, soap tray and glass holder attachment

"Putting One Over" on the High Cost of Building



Model A

It's hard to beat the High Cost of Building—but not impossible.

You can begin to do it by installing Acme Steel Bath Room Cabinets in all houses and apartments. The saving on each cabinet may be just a ten dollar bill, but if you multiply that by the number you install in a year you have a tidy sum.

Furthermore, if you could save on all building costs proportionally, **while retaining the original high quality,** you would cut your building costs in half. Acme Cabinets are electrically spot and butt welded so that they are practically a solid piece of cold rolled steel. All inside corners are rounded—making dusting easy, and hinges are sanitary and rust proof. The doors will support the weight of a big man. Mirror is of high grade plate glass, and each coat of white enamel is **slow-baked** on a steel blasted surface. **Enamel will not peel.**

We make cabinets of seven standard models. Special designs made when order is of sufficient quantity.

At a nominal extra cost Acme Cabinets can be furnished with a tooth brush rack, soap tray and glass holder attachment, as shown in illustration at top of page, making it unnecessary to buy these fixtures as separate units.

MORTON MANUFACTURING CO.
5134 West Lake Street Chicago, Illinois

SPECIAL OFFER TO RESPONSIBLE CONCERNS

Our special offer to responsible concerns will enable you to make an inspection of Acme Cabinets without obligation.

—————COUPON—————

MORTON MANUFACTURING CO.,
5134 W. Lake Street, Chicago, Illinois.

Send me Catalog A-4, low prices and special offer on Acme Bath Room Cabinets as mentioned in Building Age.

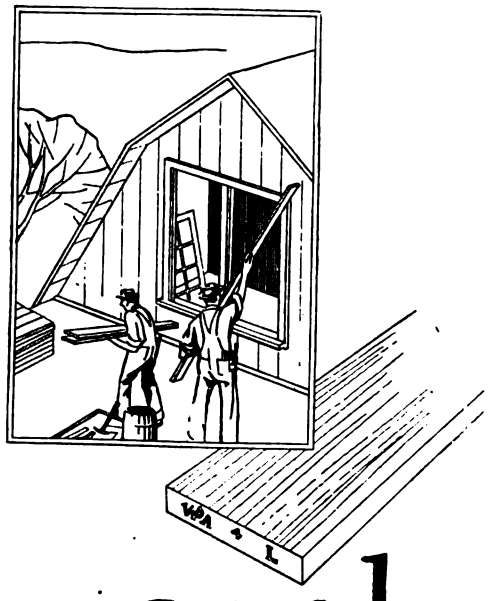
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Larch from the Inland Empire equals Europe's best



Larch

Remarkable strength and resistance to rot make this fine wood great for structural use, floors, etc.

Many builders already know how strong and durable this particular Larch really is. The difficulty in the past was that the buyer could not be certain off-hand that the kind selected really came from the Inland Empire of the Great Northwest and was not the small larch called "tamarack." That difficulty is eliminated. The end grain of every piece of genuine Larch produced by members of the Western Pine Manufacturers Association is now stamped with the association trade-mark, the mill number and the identifying letter, L.

This is our guarantee that every stick so marked is the pick of the forests and that it has been thoroughly *seasoned*, carefully *milled* and rigidly *graded* by the same great mills that produce Pondosa—pick of the pines. Use more Larch, but make sure it carries the protecting trade-mark. If your lumber dealer hasn't a supply of it, write us for name of one who has.

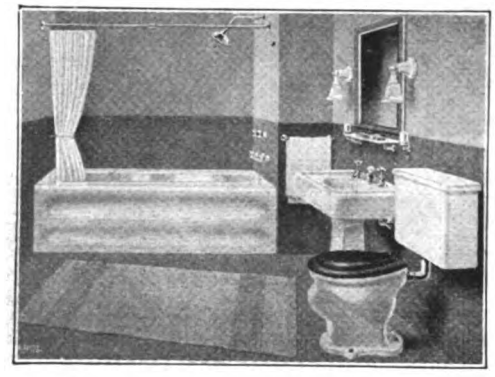
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DEPT. 123

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Bath Room Outfits

$58.25 up. For 38 years KAROL has sold products of the finest material and workmanship. We guarantee everything we sell.

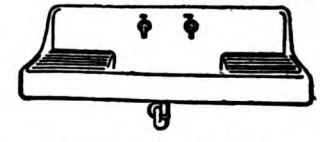


Our Peerless Outfit Complete $114.
Less Shower Equipment.
A Big Seller at a Big Saving

INDIVIDUAL PRICES
Bath Tub $64.50
Lavatory - 30.00
Closet - - 19.80



RIGHT OR LEFT SIDE
Porcelain Enameled 42 in. Apron Sink with faucets and trap. Complete **$30.70**
OTHER SIZES UP TO 52 IN.



DOUBLE DRAIN BOARD
62 in. Apron Sink Porcelain Enameled, with trap and Comb. Swing Spout Faucet and soap dish **$55**

Compare Our Prices with Others

Hot Water Boilers

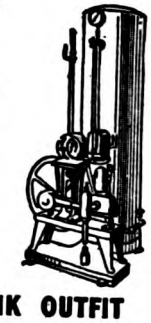


700 FT. RATING
$71.15

Full line of Hot Water and Steam Boilers — Furnaces, Pipes, Radiators and Fittings.

SEND FOR COMPLETE PRICE LIST OR YOUR JOB FOR ESTIMATE

Electric Automatic WATER SYSTEM
$87.50



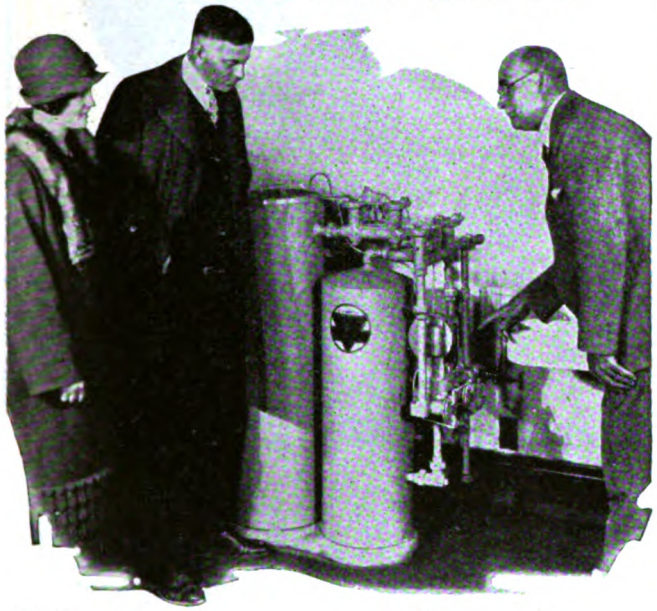
42 GAL. TANK OUTFIT
Complete—nothing else necessary—works continuous without attention.

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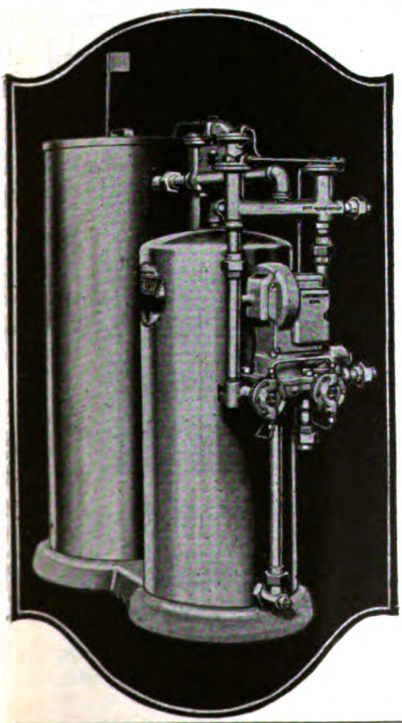
DURO Automatic Water Softener



Make your homes *modern!*

Yesterday—a home was not modern without a bathroom or electricity. Today—the home is not modern without pure, softened water, the DURO-matic Way.

The DURO Automatic Water Softener is much cheaper to install than the disease-breeding cistern and costly double-plumbing. It is easily connected to city water line in basement.



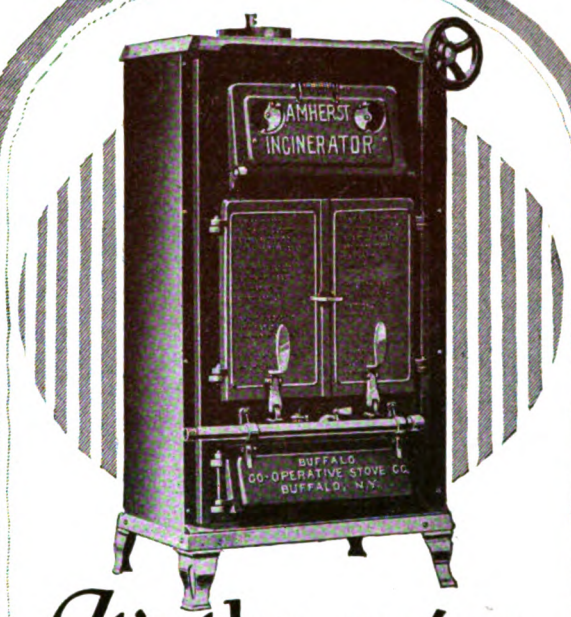
You save your clients the expense of taking out useless, lime-choked pipes, water heaters, furnace coils, etc., by installing the DURO Automatic Softener.

It is becoming more and more apparent that homes equipped with DURO Automatic Softeners are easier—far easier to sell or rent.

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THE DURO COMPANY
209 Monument Ave.
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Duro Guarantees Satisfactory Water Service



It's the *extra convenience* that sells the homes

An Amherst Incinerator is an added touch of comfort and convenience that makes any home more desirable to live in.

Easily installed in kitchen, basement or garage, it takes little attention and eliminates one of the greatest of household problems—garbage disposal.

An Amherst Incinerator destroys all refuse without heat or odor, and reduces it to a fine sterilized ash. Operates on gas for a few cents a week.

Install them in the homes you build and watch them sell the quicker for it. Prices and information on request—Amherst Incinerator.

Amherst Incinerators

BUFFALO CO-OPERATIVE STOVE CO.
Buffalo, N. Y.

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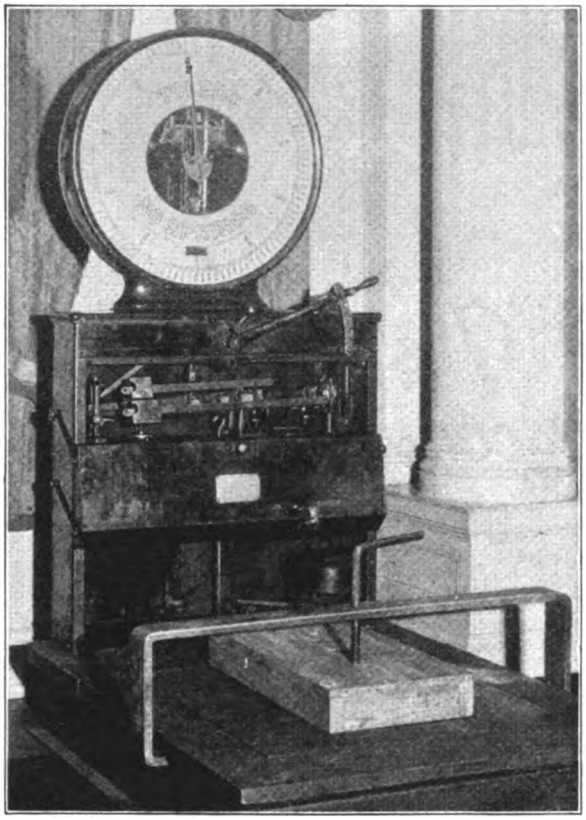
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RIFT FLOORING

End-Matched Dixie Rift Flooring



Flat Grain Short Stock, laid without sub-floor, stands up under more than 1000 pounds pressure

This striking demonstration of the extreme strength of End-Matching was conducted on a Toledo Automatic Scale. The test illustrated, consisted of nesting a short piece of *End-Matched flat grain* stock in a flooring panel of regular construction, on 16" centers. *The piece itself had no direct support from the joist.* It broke at 1,065 pounds.

Here's convincing evidence that "Dixie Rift" short length End-Matched flooring has more than adequate strength for all ordinary stresses to be met in residential, apartment, school, church and store construction, etc.

***It is* Practical · Economical · Better**

Ask your dealer for Dixie Rift Flooring. He will be glad to show you the stock and quote prices. Write for handsome illustrated free booklet.

Dixie Rift Flooring is sold exclusively through lumber dealers

JACKSON LUMBER COMPANY
Manufacturers
LOCKHART · ALABAMA



An Amazing Offer!

All that we could tell you in a 200-page book about the Improved Schlueter Floor Surfacer would not be half so convincing a story of its remarkable performance—and its time- and labor-saving features—as your actual experience in using it.

So, we make you this most unusual proposition. Let us send you the

IMPROVED SCHLUETER FLOOR SURFACER

FREE

for five days' trial

Test it! Compare it with anything you've ever used! You'll like the marvelous ease and speed with which it operates—the wonderful efficiency with which it performs.

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Thirty thousand in use! There must be a reason! Take advantage of this offer today and learn what it is. Write, wire or phone!

Guaranteed for five years

Manufactured and Sold by

Lincoln-Schlueter Machinery Co.

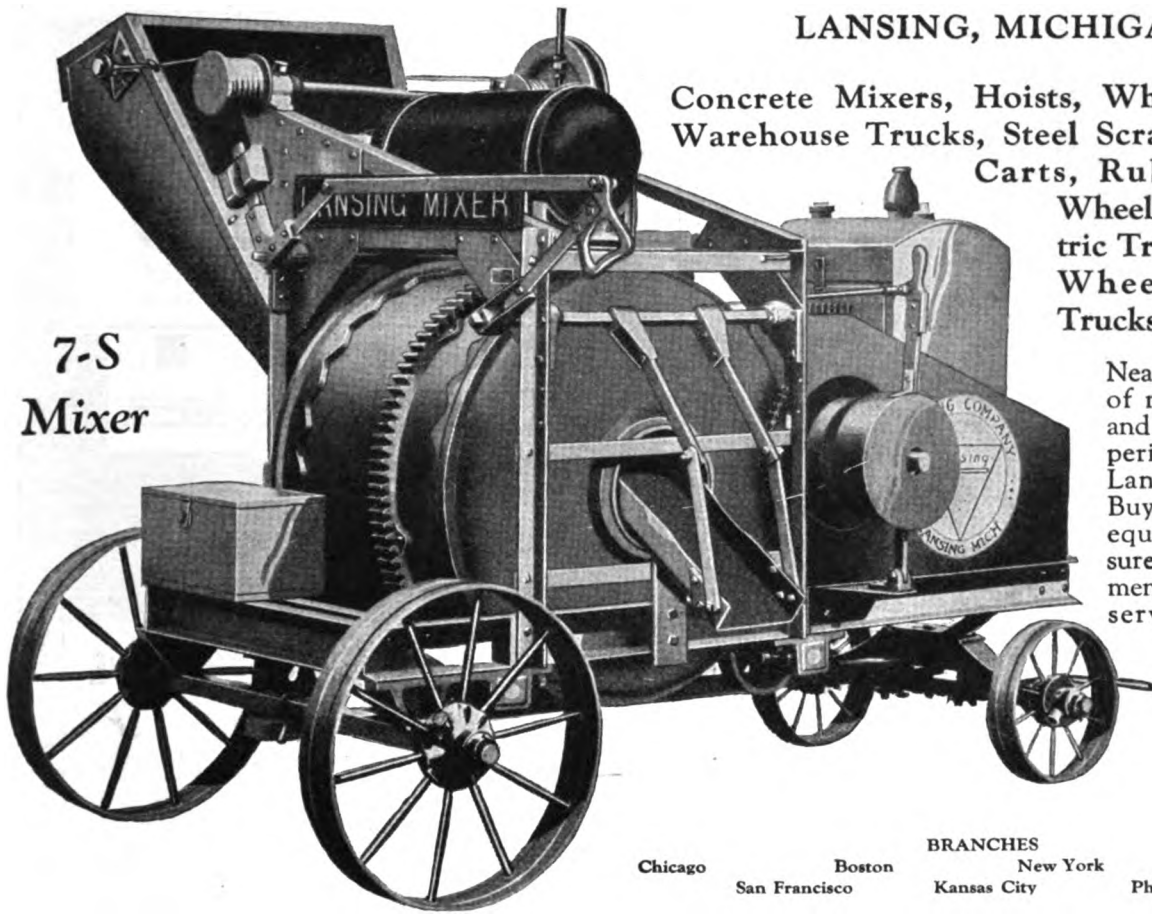
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NOTE: Sandpaper for all surfacing machines carried in stock.

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LANSING, MICHIGAN



7-S Mixer

Concrete Mixers, Hoists, Wheelbarrows, Warehouse Trucks, Steel Scrapers, Hand Carts, Rubber Tired Wheels, Skids, Electric Tractors, Fibre Wheels, Trailer Trucks.

Nearly half a century of manufacturing and distributing experience is back of Lansing Products. Buyers of Lansing equipment are assured of prompt shipment, efficient repair service and low freight rates.

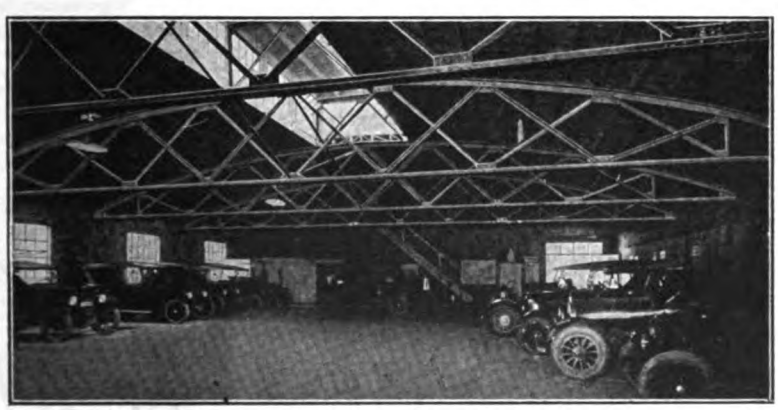
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Have you ever considered how expensive an automobile would be if only one were made from a set of plans? Steel Trusses have always been made that way—each job special and made to order.

We make Bowstring steel roof trusses according to modern shop production methods—hundreds of trusses are made from one design and special equipment speeds up manufacture. We have cut the cost. That's why we say

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Mesker

STANDARD BOWSTRING

Steel Roof Trusses

It is now possible to span wide buildings with steel trusses at very low cost.

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Prompt delivery because there is no "red tape."

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5 Machines In One

If It's In Wood the *Famous* Will Do It

When it comes to Woodworking operations the Famous Jr. "30" will turn them out quickly, easily and more economically than any other machine on the market. Has five machines in one unit,—Band Saw, Saw Bench, Jointer, Shaper, and Boring Machine. With extra attachments will do **thirty** operations. Works equally well in the shop or on the job; in rough lumber or finest trim.

FAMOUS

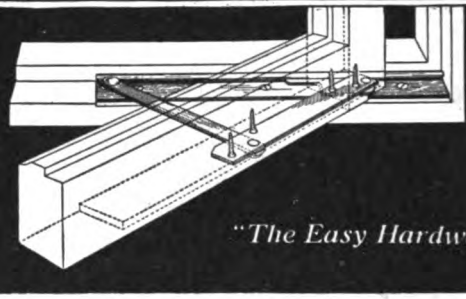
Junior "30" Woodworker

Eliminates time waiting on the mill, reduces labor cost. Reduces cost of material,—buy it in the rough and finish it yourself. Occupies only 48 square feet of floor space. Powered by one motor. Operation cost is low. Has no short belts, cross belts or idlers. Any unit may be run separately or collectively.

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The Sidney Machine Tool Co.
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HARDWARE



"The Easy Hardware"

A Whitco Equipped Sash Cannot Sag

Not only does this self-adjusting hardware provide a cradle-like support for the sash as a whole, but the plate which attaches to it provides the strongest kind of a reinforcement for the joint between the stile and the rails.

Whitco is sold by dealers in builders' hardware

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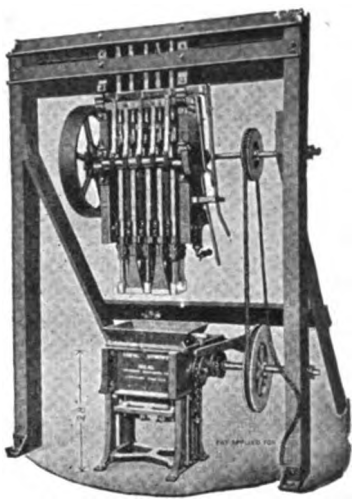


"Whitco makes it easy and safe to clean both sides of the casement from within the room"

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Use the months that remain until Winter comes, to

CASH IN ON AN Ideal Vertical Stripper

Everywhere, Ideal Vertical Strippers are on the job, making money for operators. Most of them will be kept busy all year round—ALL of them until zero weather arrives.

Why not take the hint—buy new equipment NOW, make and market Block and Tile by the wholesale, and realize handsomely on your investment before Winter?

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The Ideal Vertical gives you:

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OWN YOUR OWN — MAKE MORE MONEY

$5.00 BRINGS IT TO YOU

Aloe Convertible Level and Transit-Combined

FREE TRIAL



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Don't rent an instrument or hire others to level and plumb; do it yourself, faster, better, and save money on every job—by owning your own Aloe Convertible Level.

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Why continue to plod along in the old way? Equip yourself for bigger work. Here's your opportunity to become a bigger and more successful man in your community. Only $5.00 will bring you this high-grade, accurate Convertible Level and Transit.



Running Lines *Excavation Levels*

For leveling foundations, walls, piers, buildings, floors; running straight lines for fences, streets, ditches; in laying out irrigation; surveying lots and fields; in every job requiring an accurate level and transit combined.





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You Learn To Use It In An Hour



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Without obligation, send me your FREE book, "Be a Bigger Builder". Also full particulars about the Aloe Convertible Level and details of your easy payment plan.

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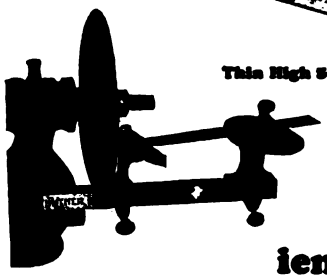
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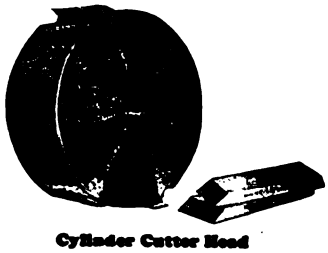
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Thin High Speed Steel Knives



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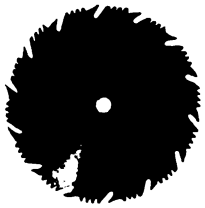


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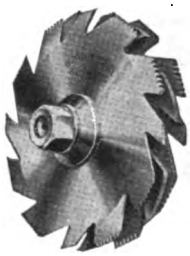
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Circular Mitre Saw with Cleaner Teeth

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Makers of Better Saws for More Than Fifty Years



Dado Head

A Builder's Responsibility



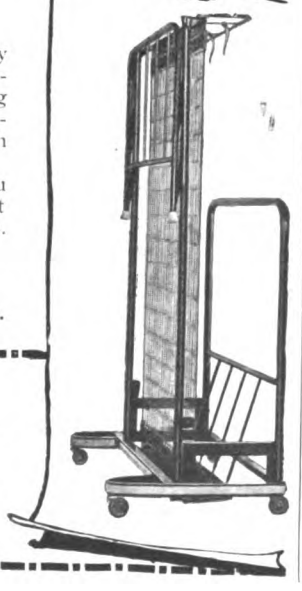
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These beds afford great leeway in arrangement. Any small enclosure will serve as a retaining closet. The Portable feature permits the beds to be rolled through the house quietly and quickly.
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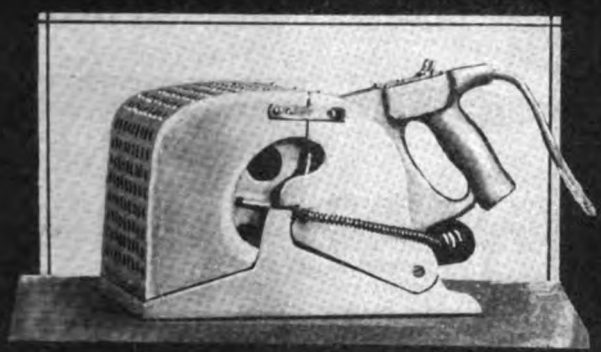
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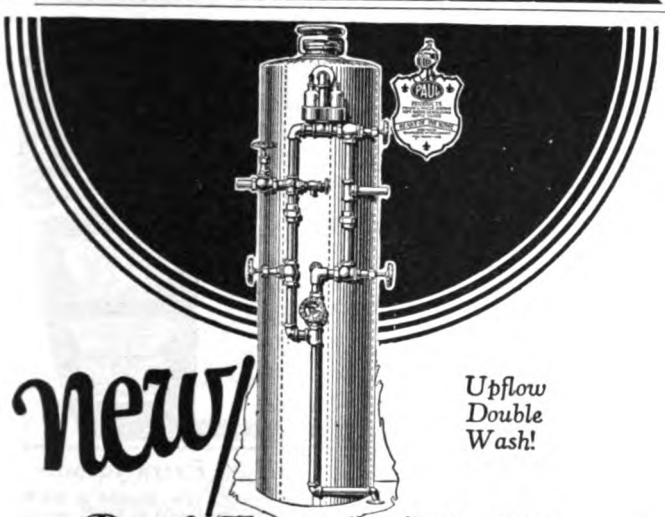
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No belt, no chain, no gears, just a ball bearing revolving motor. The only convertible sander on the market. It can be used like a plane, or inverted in a special base as a jointer, or with a detachable long handle as a floor sander.

Mr. H. D. Leasure of Marion, Iowa, says: "I just love my little sander. . . . I have almost forgotten how to use my smoothing plane."

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Paul Type "B" Soft Water Generator

PROGRESS has produced a new and better double action softener that is quickly regenerated, and tho small in size, higher in efficiency because the double wash of the mineral bed assures maximum capacity after regeneration. The double wash is assurance against packing or channeling of the mineral. Ask us about it!

FORT WAYNE ENGINEERING & MFG. CO.
1715 N. Harrison St., Fort Wayne, Ind.

Build Better with *Durable* Douglas Fir

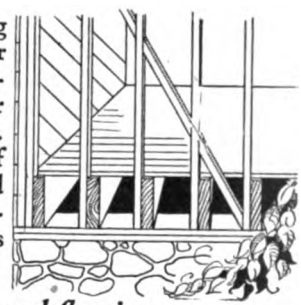
AMERICA'S PERMANENT LUMBER SUPPLY



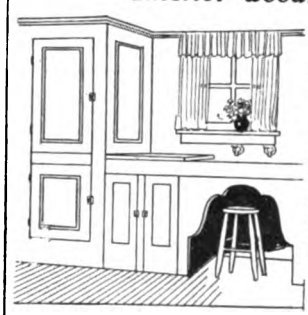
The uniform texture of Douglas Fir makes it easy to work. Carpenters do faster and better jobs with Douglas Fir. Saws cut quick, without binding or constant resharpening. Planes and chisels keep their cutting edges. It is clean wood to handle, too. Doesn't gum up tools or make hands sticky. There is only a very small amount of pitch or resin in Douglas Fir.

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Douglas Fir is light, stiff and strong — easy to handle — makes your framing rigid and safe — often permits wider center-to-center spacing of joists, rafters and studs. Light Douglas Fir sheathing, roof boards and under-floors save dead weight yet give greater strength — nails hold tight so siding, shingles and floors stay put.



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Interior trim, built-in fixtures, steps and floors of Douglas Fir stay as built — straight and tight. Douglas Fir floors resist wear, look good and lay quickly. Douglas Fir cabinet work and trim takes enamel smoothly over shellac primer. Hardware stays firmly attached to Douglas Fir woodwork because Douglas Fir grips screws tightly.

Heartwood for better exterior trim

High percentage of weather-resisting heartwood in Douglas Fir makes durable window sash and frames, exterior trim, gutters, columns, porch floors and other exposed woodwork. You can get Douglas Fir in all sizes, shapes and quantities from your local lumber yards, because Douglas Fir has nation-wide distribution and is available in every important lumber market.

85% to 90% heartwood

Durable Douglas Fir

AMERICA'S PERMANENT LUMBER SUPPLY

Mail the coupon or a postcard today for the new, illustrated booklet, "Durable Douglas Fir — America's Permanent Lumber Supply." You need the authentic information this free booklet contains. No other book tells so much about Douglas Fir and the Douglas Fir industry. Send for your copy today.

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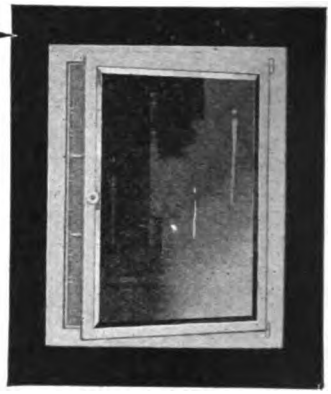
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WHITE STEEL



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Exclusively since 1900

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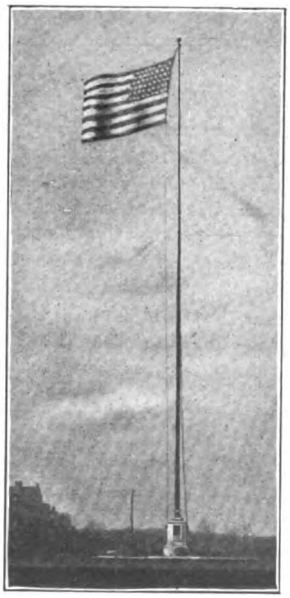


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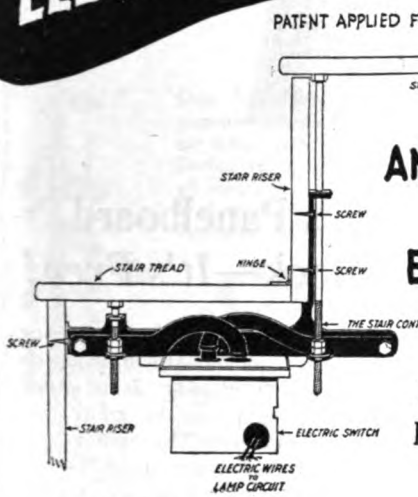
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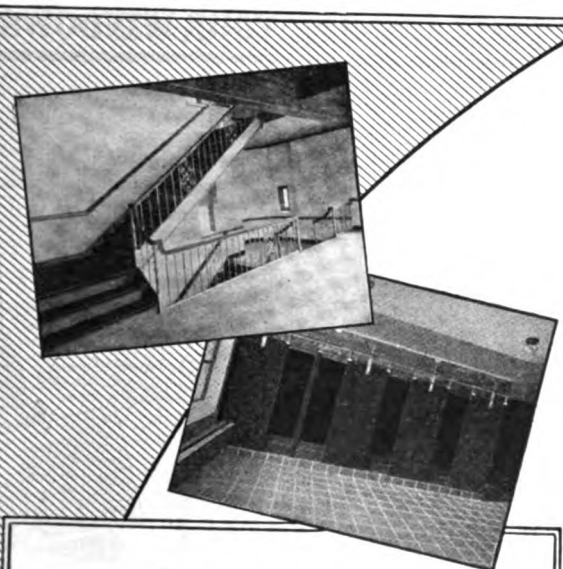
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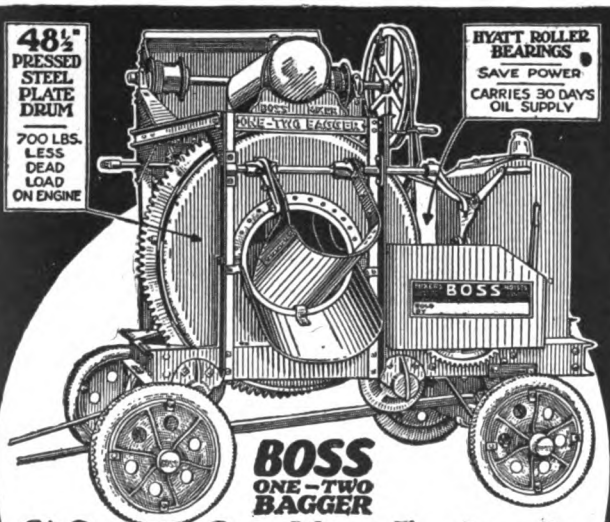
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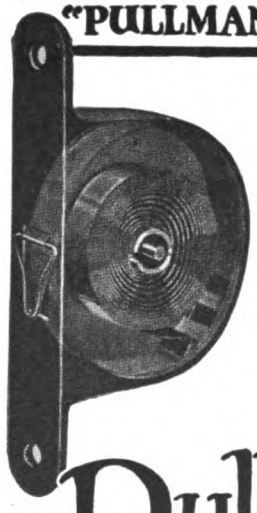


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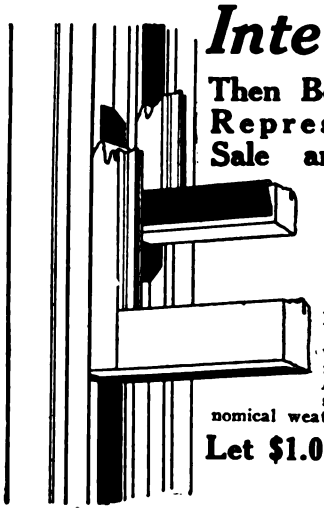
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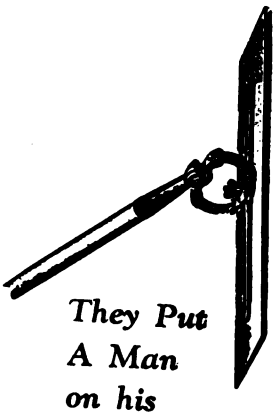
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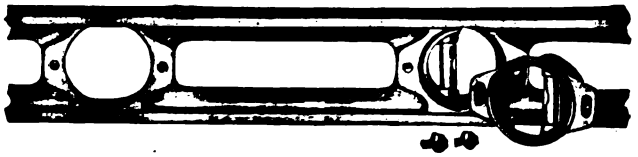
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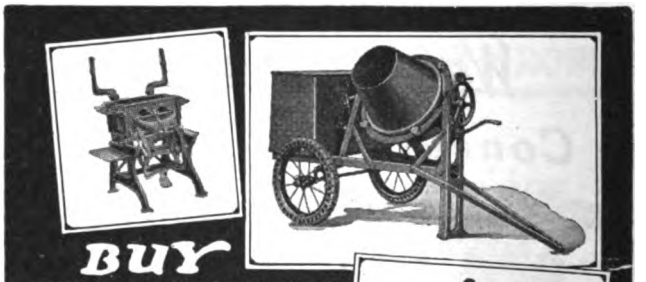
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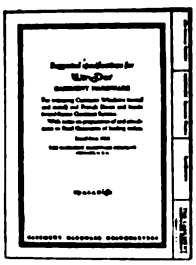
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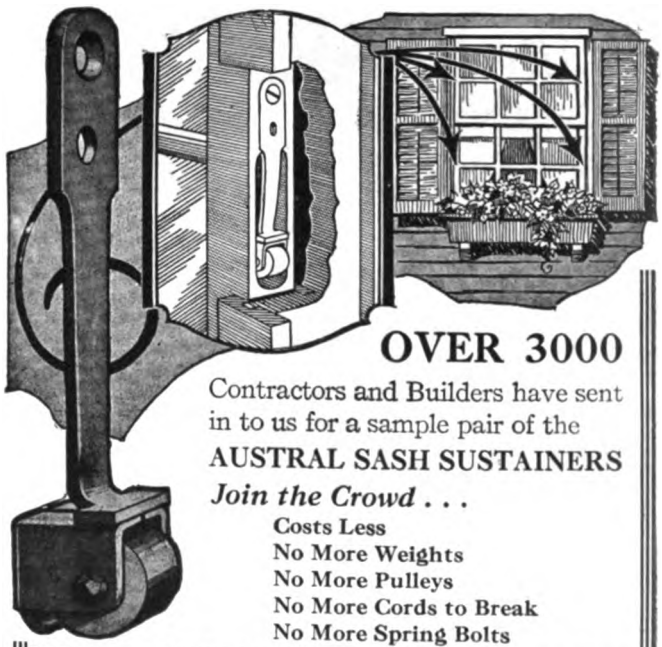
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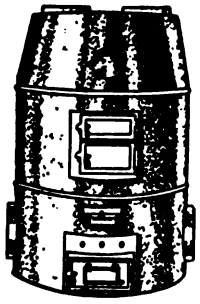
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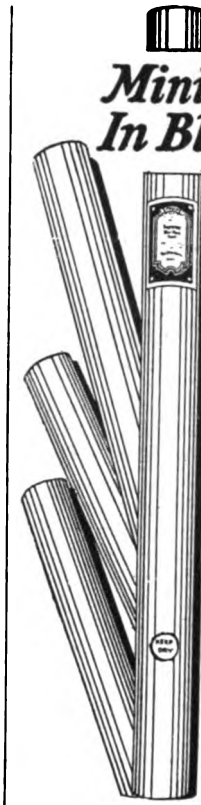
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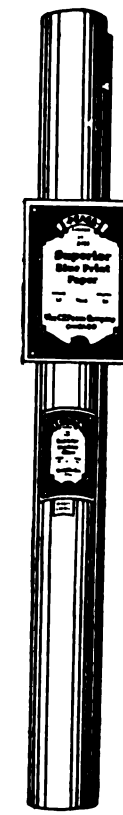
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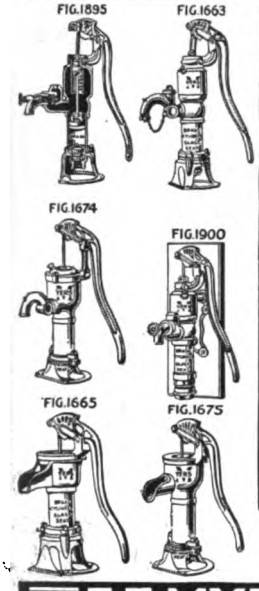
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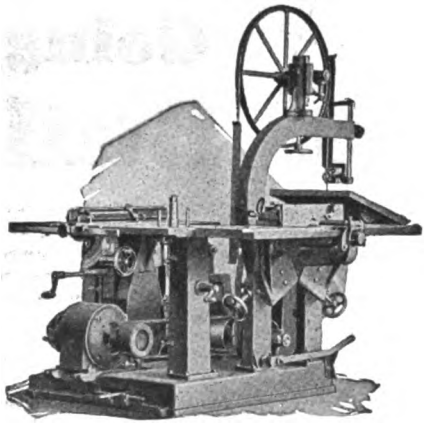
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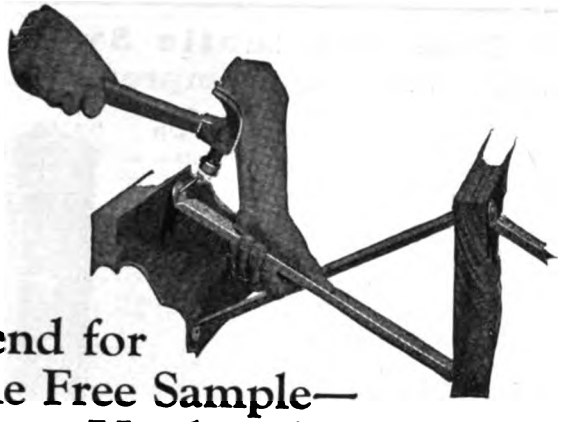


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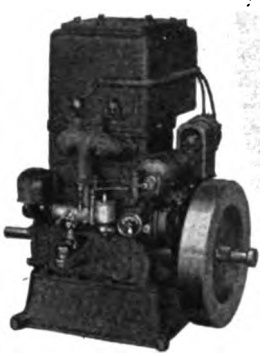
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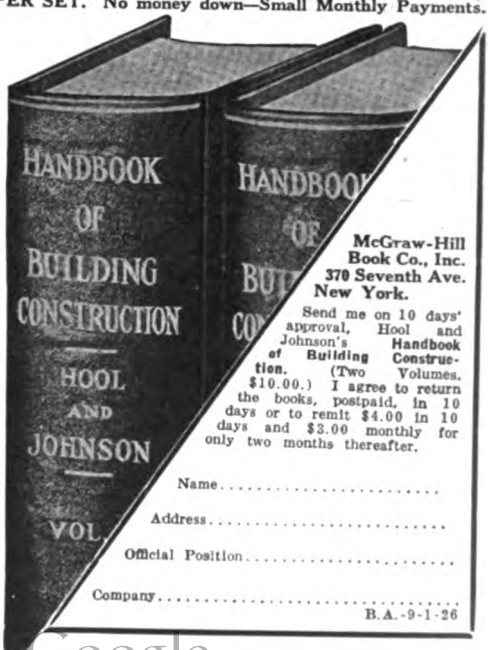
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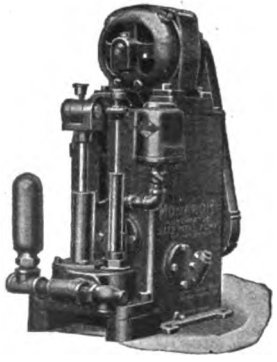
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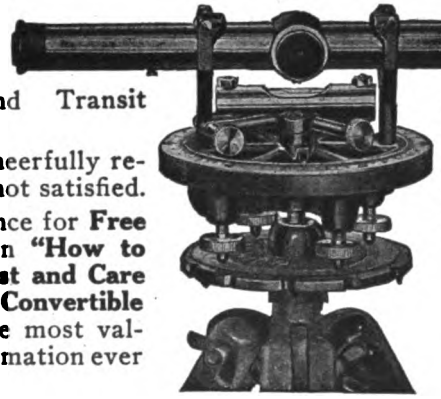
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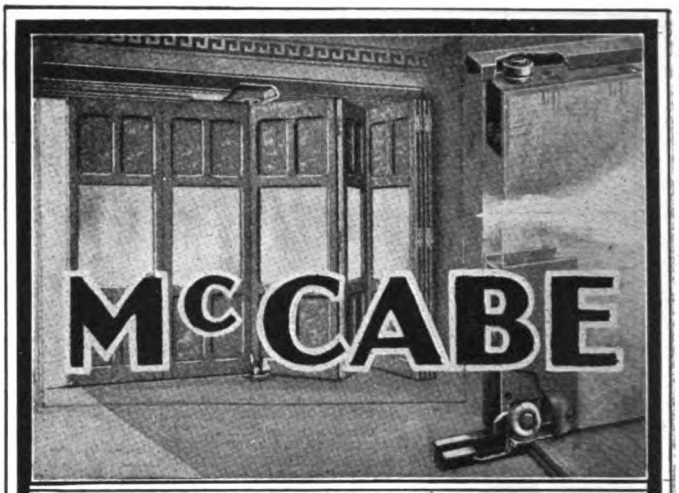
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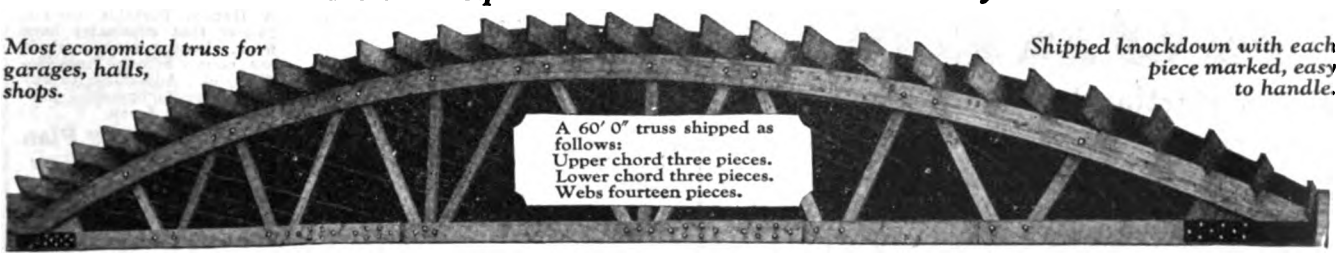
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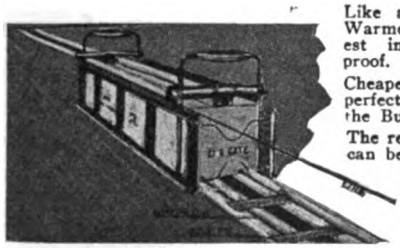
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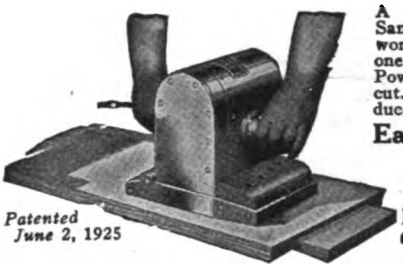


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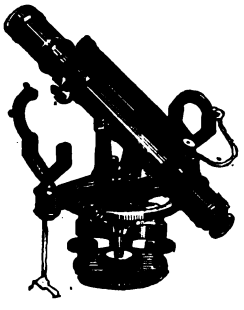
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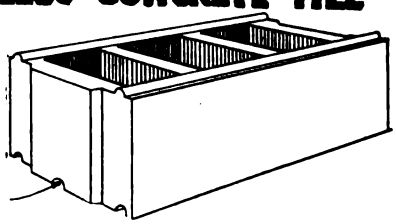
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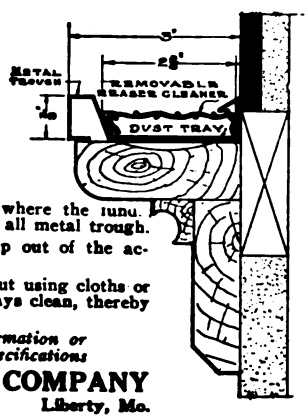
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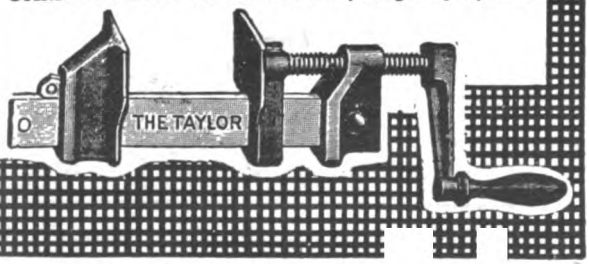
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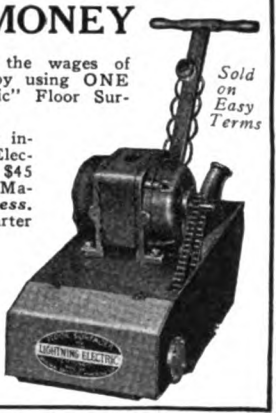
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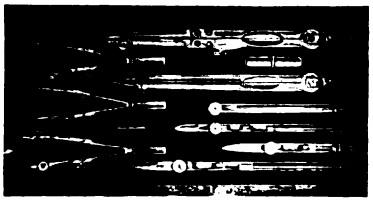
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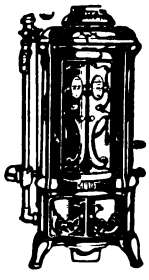
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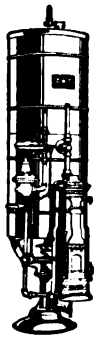
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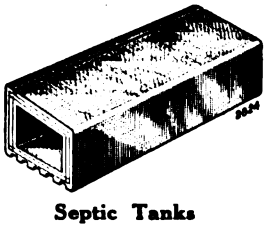
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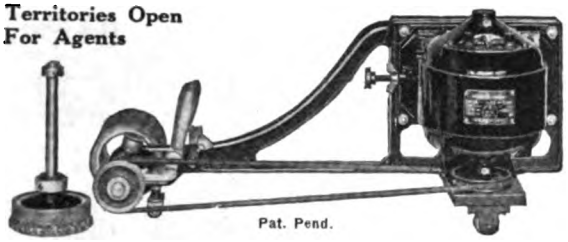


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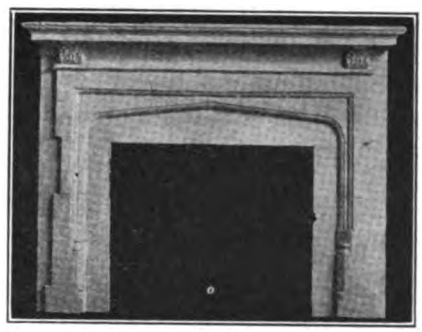
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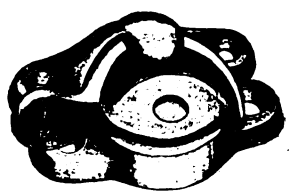
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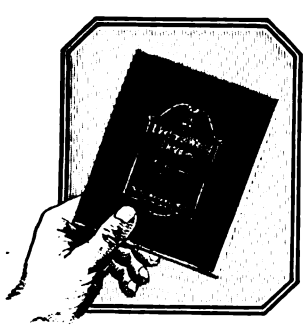
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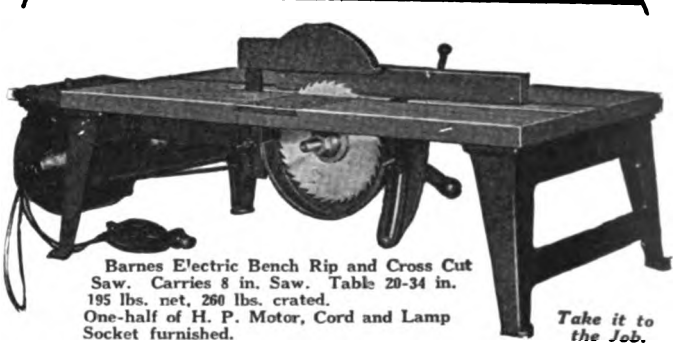
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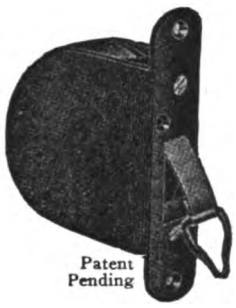
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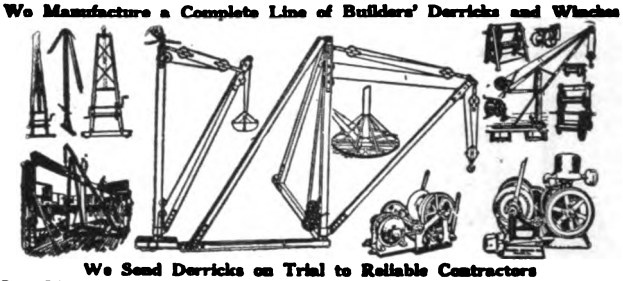
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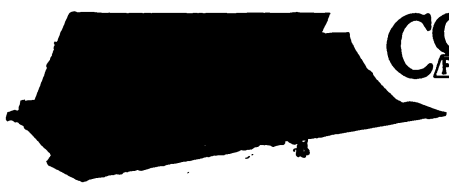
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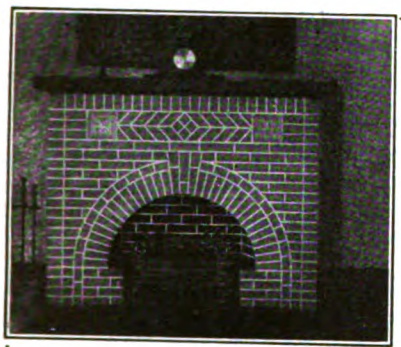
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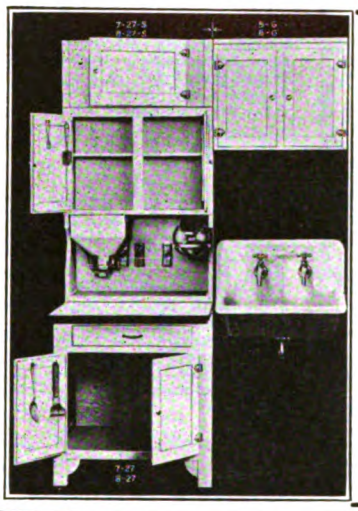
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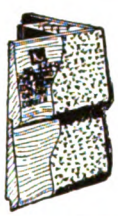
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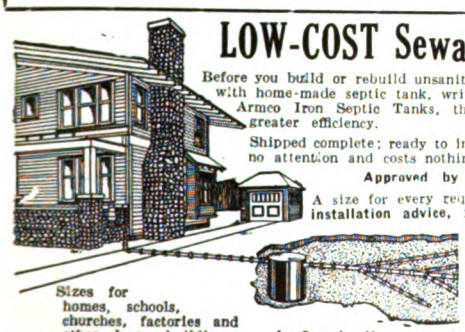
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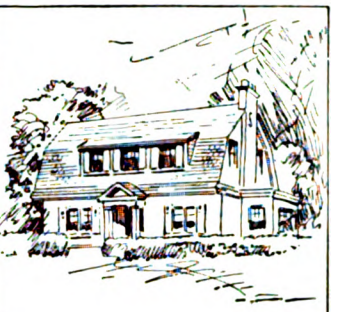
English Cottage — Recommend Milcor "Titelock" American Tile, producing heavy slate effects, or "Titelock" Metal Slate, or "Titelock" Art Shingles.



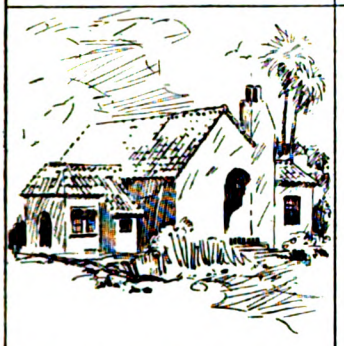
Italian — Use Milcor "Titelock" Spanish Tile, painted red or green, or made from pure copper. The effect is decidedly authentic and a considerable saving in cost can be made.



New England Colonial — Milcor "Titelock" Metal Shingles or Metal Slate, lend a true Colonial character to roofs. Milcor "American" Metal Tile is also in good form.



Dutch Colonial—This style generally employs the same types of Milcor roofing as the New England Colonial, "Titelock" American Tile being the most popular.



Spanish—Milcor "Titelock" Spanish Tile produces the quaint charm of old Spanish roofs. In Pure Copper wonderful effects result as the copper takes on its permanent greenish oxidized finish.



French Cottage—Recommend Milcor "Titelock" Art Shingles for the French Cottage. The general result is fine as it nicely resembles the original French Cottage effects.



Modern American Two-Story Houses—Milcor "Titelock" Metal Roofings are adaptable to this type of architecture, according to the basic style. Tile effects are the most popular; slate or shingle effects are also desirable. For any desired effect there is a Milcor "Titelock" Metal Roofing.

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METAL ROOFING



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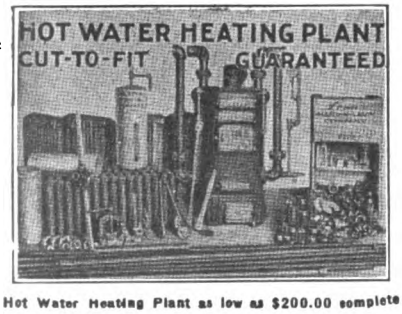
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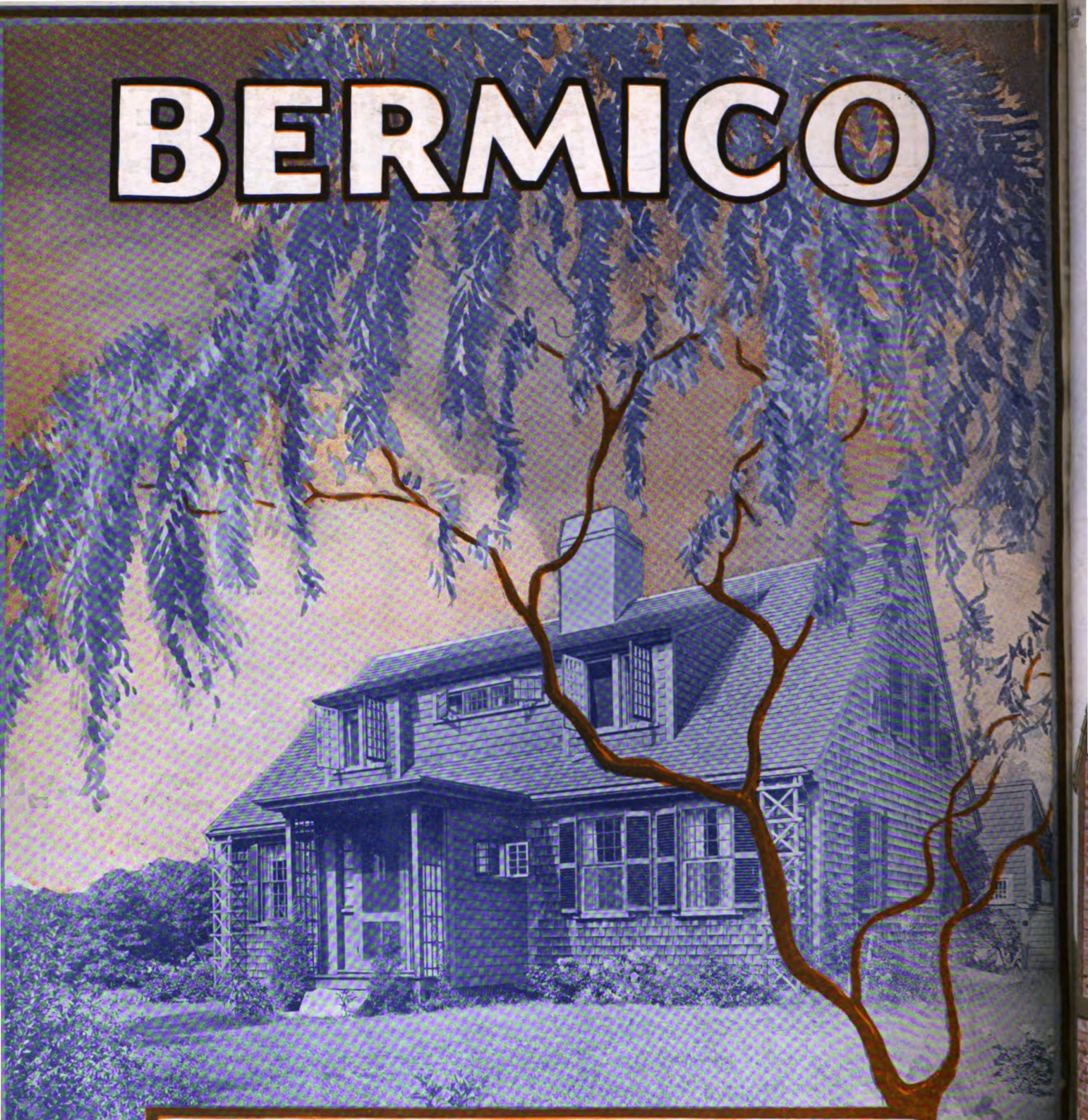
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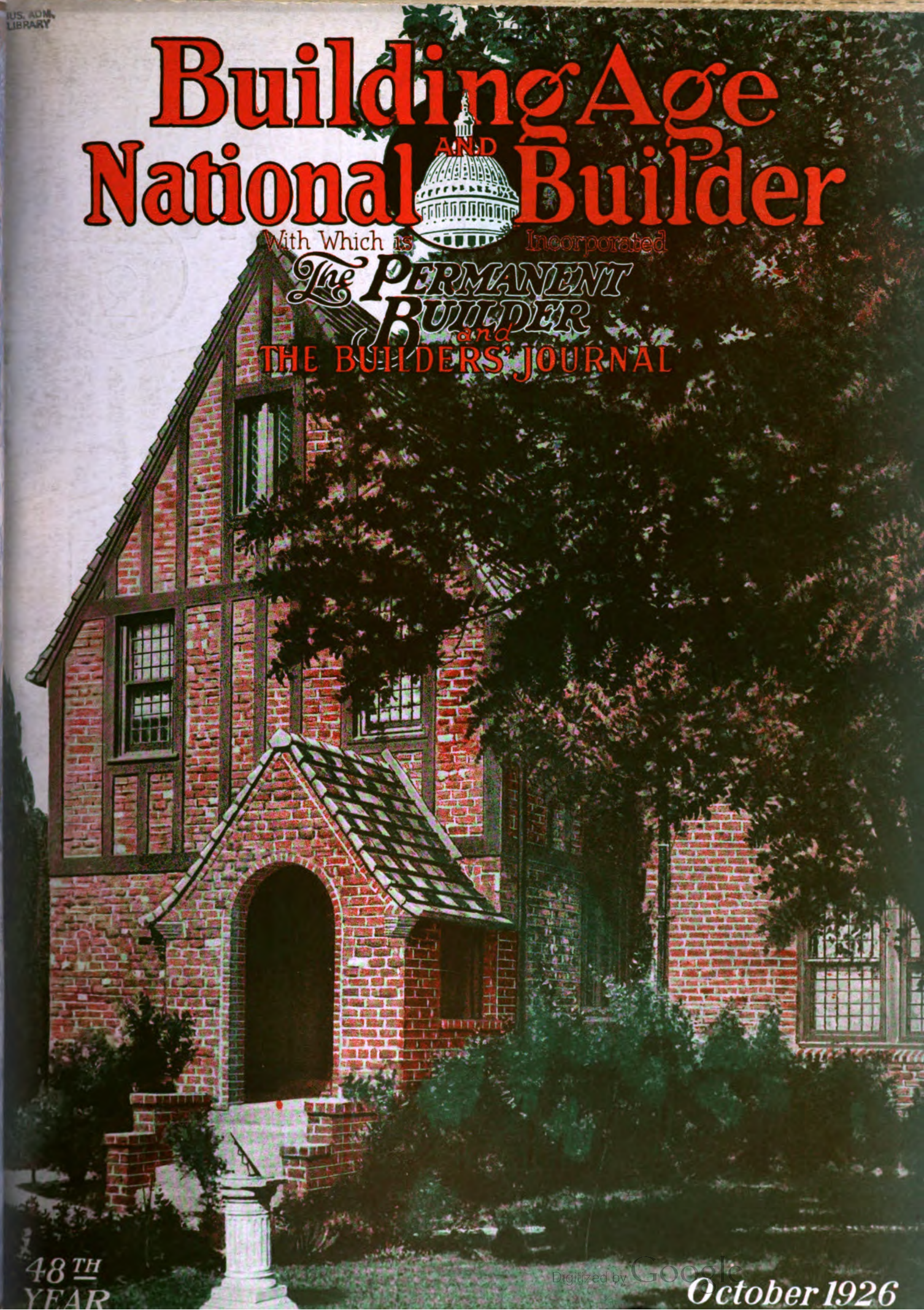
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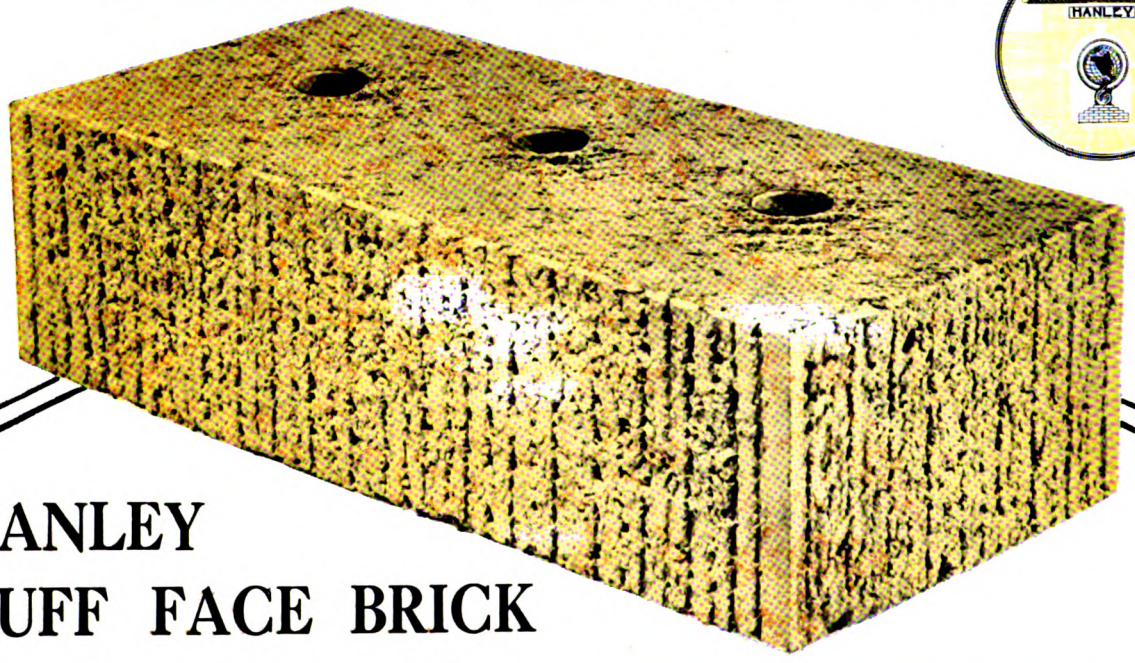


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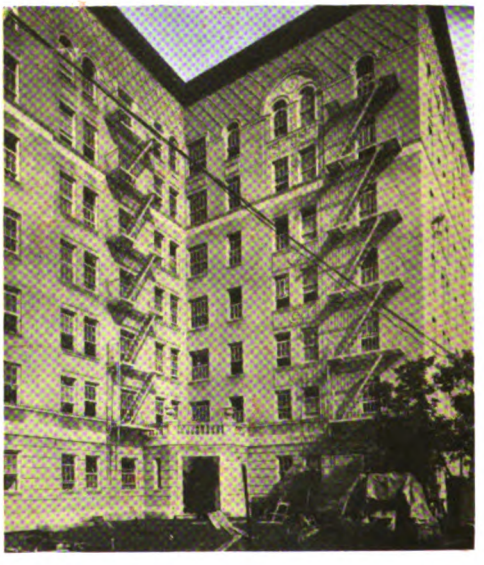
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Use Hanley Buff and Grey Brick, the products of the largest and most modern Tunnel Kiln Face Brick plant in the country.



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August Stoltz, Builder and General Contractor

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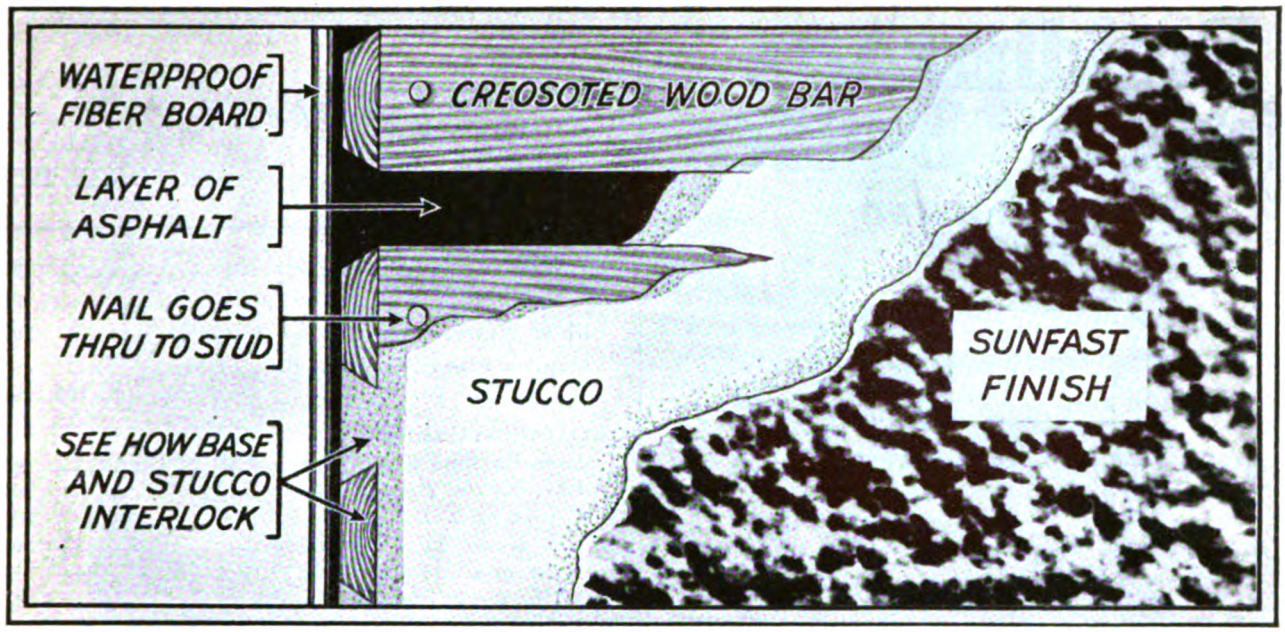
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See how the stucco keys itself into the dove-tail grooves, and is supported between the studdings. The result is a solid UNIT WALL.

Over 6 times stronger than lumber sheathing!

A good stucco job, as every builder knows, depends even more on the strength of the reinforcing base than on the stucco itself.

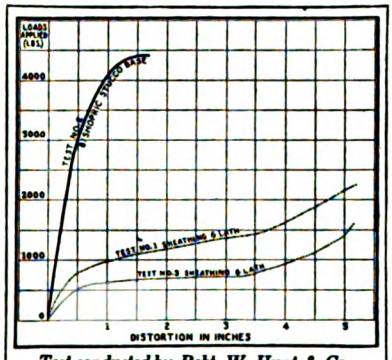
Actual tests show that Bishopric Reinforcing Base is more than 6 times stronger than lumber sheathing. Thus, this *improved* reinforcement will stand *far greater strains than any stucco base would ever be subjected to!*

Bishopric Base is stronger because it is made *scientifically*. Bone dry creosoted wood bars are embedded under great pressure into finest quality fibreboard heavily coated with asphalt mastic. The result is a sound-deadening, vermin-proof, fire-resisting base of *super-strength*.

Bishopric Base is economical, too. On both exterior and interior plaster work, it saves *one-fourth* the usual cost in labor and materials.

Because of its excess strength, Bishopric Base can be laid direct to studdings, requiring none of the sheathing used to reinforce ordinary constructions.

In interior plastering, the dove-tail construction of the Base requires less stucco, and the heavy fibre-board prevents any of the stucco from falling down the spacing between the inner and outer walls.



Test conducted by Robt. W. Hunt & Co., of Chicago, Illinois—one of America's foremost engineers.

WHAT THE CHART REVEALS

The results graphically portrayed in this Chart show that by *actual test* Bishopric Stucco Base stands *twice* as much weight strain as wood sheathing and ordinary lath, with less than *one-third* the distortion of the base.

Bishopric will thus stand a *far greater strain than any stucco base would ever be subjected to!*

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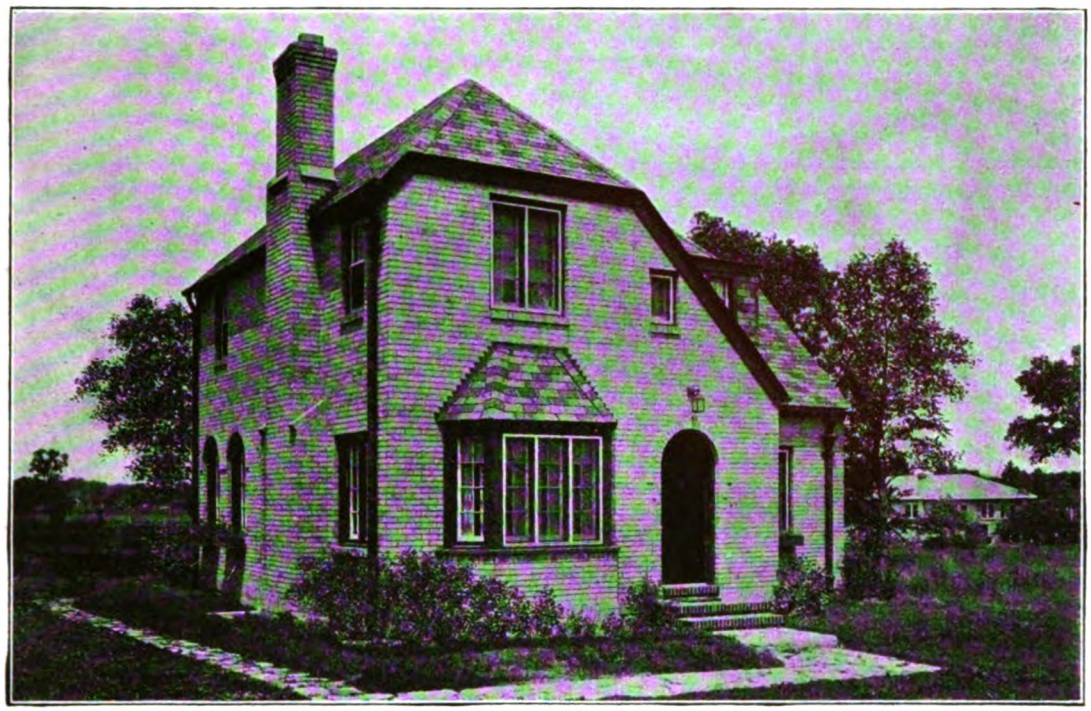
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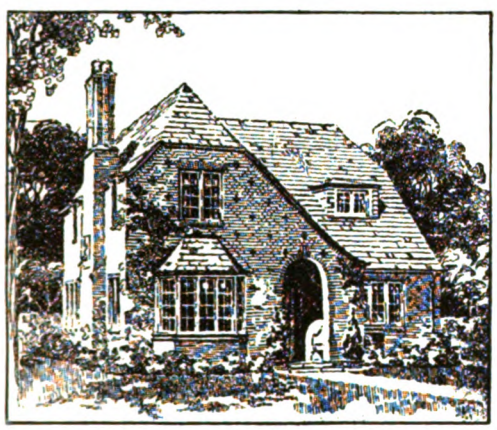
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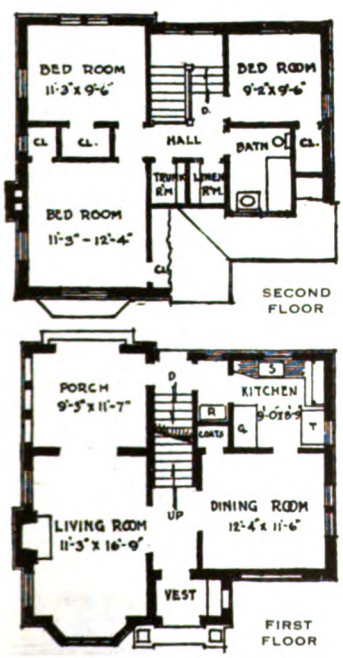
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House Plan No. 111



You, too, Can Build Successfully with These Plans

THE lasting beauty and comfort of Face Brick houses make satisfied customers—grateful customers are your best asset. By building with Face Brick from practical plans that satisfy, you are insuring greater future profits.

Send for these Association booklets. They will help you build and sell more Face Brick homes.

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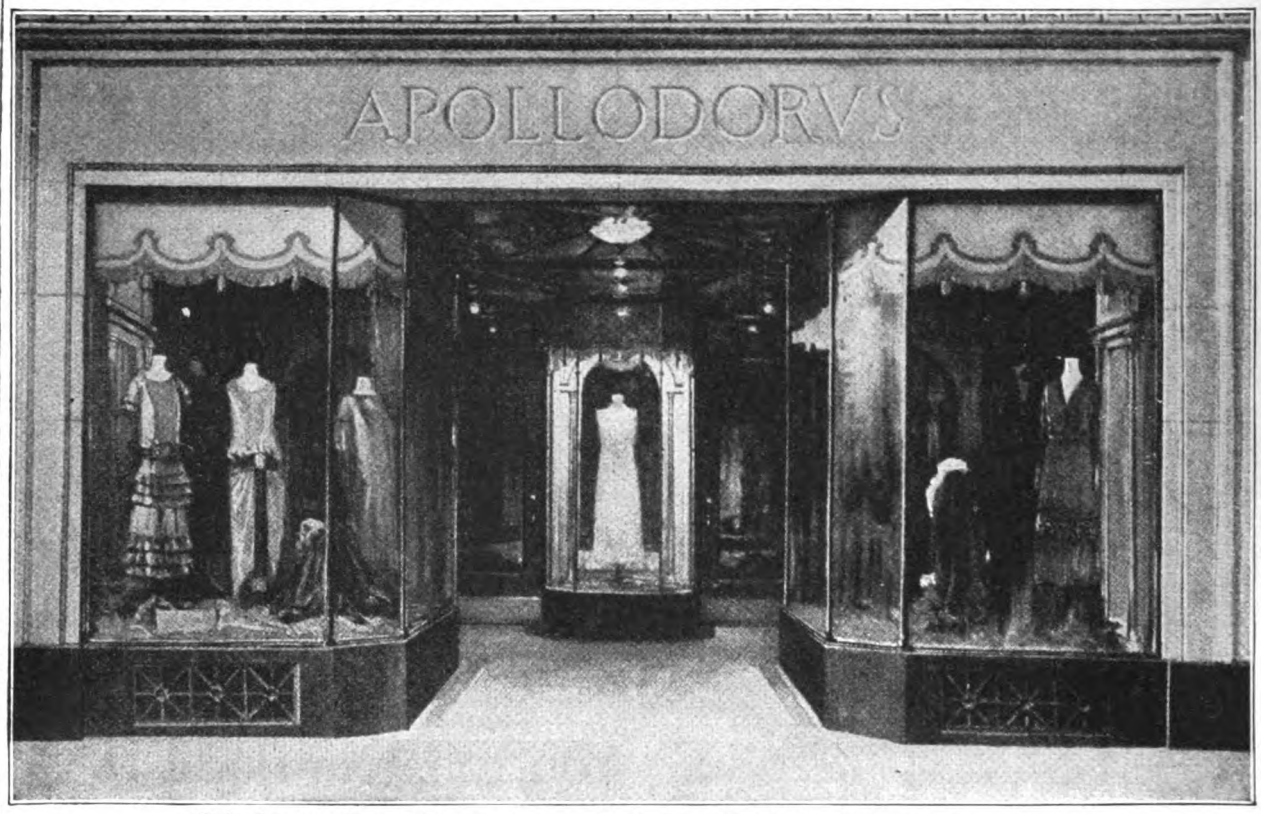
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zouri key-set store front construction

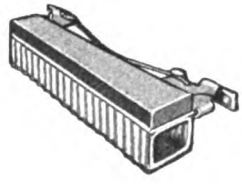


This plan permits complete view of gowns on display, with attention focused on the center case

Zouri Key-Set Store Front Construction

No display is better than its setting.

That is why a Zouri Copper Store Front plays an important part in the process of selling—*both the goods of the merchant and the further services of the contractor.* Its beauty equals and enhances the quality of any lot of goods offered the consumer.



The Self-Adjusting Setting Block receives the glass on its leather cushion and moves into place without effort by the setter—a remarkable invention and another essential for the safe setting of glass.

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Before you plan your store, refer to our detail sheets and data book. We will send them free.

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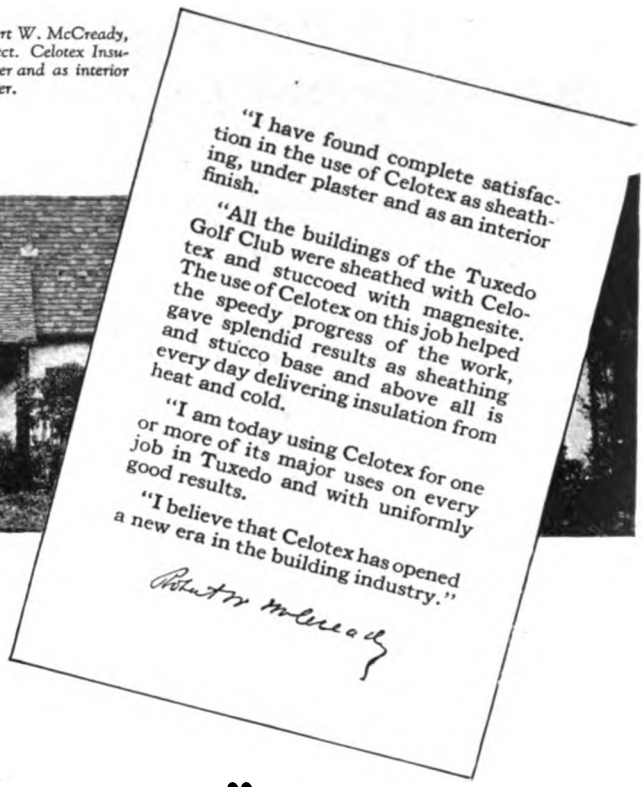
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zouri key-set store front construction

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Tuxedo Golf Club, Tuxedo Park, N. Y. Robert W. McCready, Contractor, Kenneth M. Murchison, Architect. Celotex Insulating Lumber used as sheathing, under plaster and as interior finish. Read Mr. McCready's interesting letter.



"I have found complete satisfaction in the use of Celotex as sheathing, under plaster and as an interior finish.

"All the buildings of the Tuxedo Golf Club were sheathed with Celotex and stuccoed with magnesite. The use of Celotex on this job helped the speedy progress of the work, gave splendid results as sheathing and stucco base and above all is every day delivering insulation from heat and cold.

"I am today using Celotex for one or more of its major uses on every job in Tuxedo and with uniformly good results.

"I believe that Celotex has opened a new era in the building industry."

Robert W. McCready

"It has Opened a New Era in the Building Industry"

So says Robert W. McCready, Contractor, President Master Builders Association, Tuxedo Park, N. Y., of Celotex Insulating Lumber. This insulation offers you advantages found in no other material

THIS progressive contractor knows that insulation is one of the most important features of any house built today. He knows that the usual building materials, wood, brick, plaster, concrete, etc., alone, do not keep sun heat out and furnace heat in.

And he agrees with hundreds of other building authorities that Celotex is revolutionizing building practice, because this remarkable heat-stopping lumber now provides insulation at little or no extra building cost.

Today, Mr. McCready is using Celotex on every job in Tuxedo Park, "with uniformly good results."

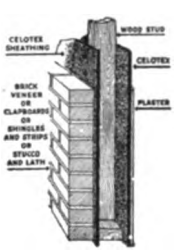
Celotex is made from tough cane fibre into broad, strong boards that serve both as insulation and lumber.

Little or no extra cost

Unlike ordinary insulation, Celotex replaces other materials—is not an extra item in the building. As sheathing, it adds nothing to the cost of a house. Under plaster it costs a trifle more, but gives great advantages.

① As sheathing, Celotex supplies the insulation needed back of stucco, brick or wood exteriors. Here it replaces the rough boards formerly used, giving greater strength to the house walls. Building paper is unnecessary.

② On inside walls and ceilings plaster is applied directly to the surface of Celotex. This eliminates the use of lath, and forms stronger, insulated walls, free from lath marks.



③ Celotex should always be used as roof insulation; either over or under the rafters. Both applications are recommended because the greatest heat leakage is through the roof.

④ Celotex is used for interior finish. It may be left in its attractive natural tan color or stained, or painted.

⑤ It is also used as exterior finish. When painted, Celotex resists exposure as well as wood lumber.

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Celotex is exceptionally economical to apply—it saves labor as well as material. It is sawed and nailed just like wood lumber and with less waste in trimming. Celotex comes in stock sizes: width 4′, lengths 8′ to 12′, thickness 7-16″, weight about 60 lbs. per 100 sq. ft. Smaller, less expensive heating plants and radiators are needed to keep a Celotex house comfortably warm.

Look ahead, heat-leaking houses are becoming harder to sell, rent or mortgage. Ask your architect or lumber dealer to tell you more about Celotex. All lumber dealers can supply it. Leaders in these lines advise its use. And send the coupon below for complete details.

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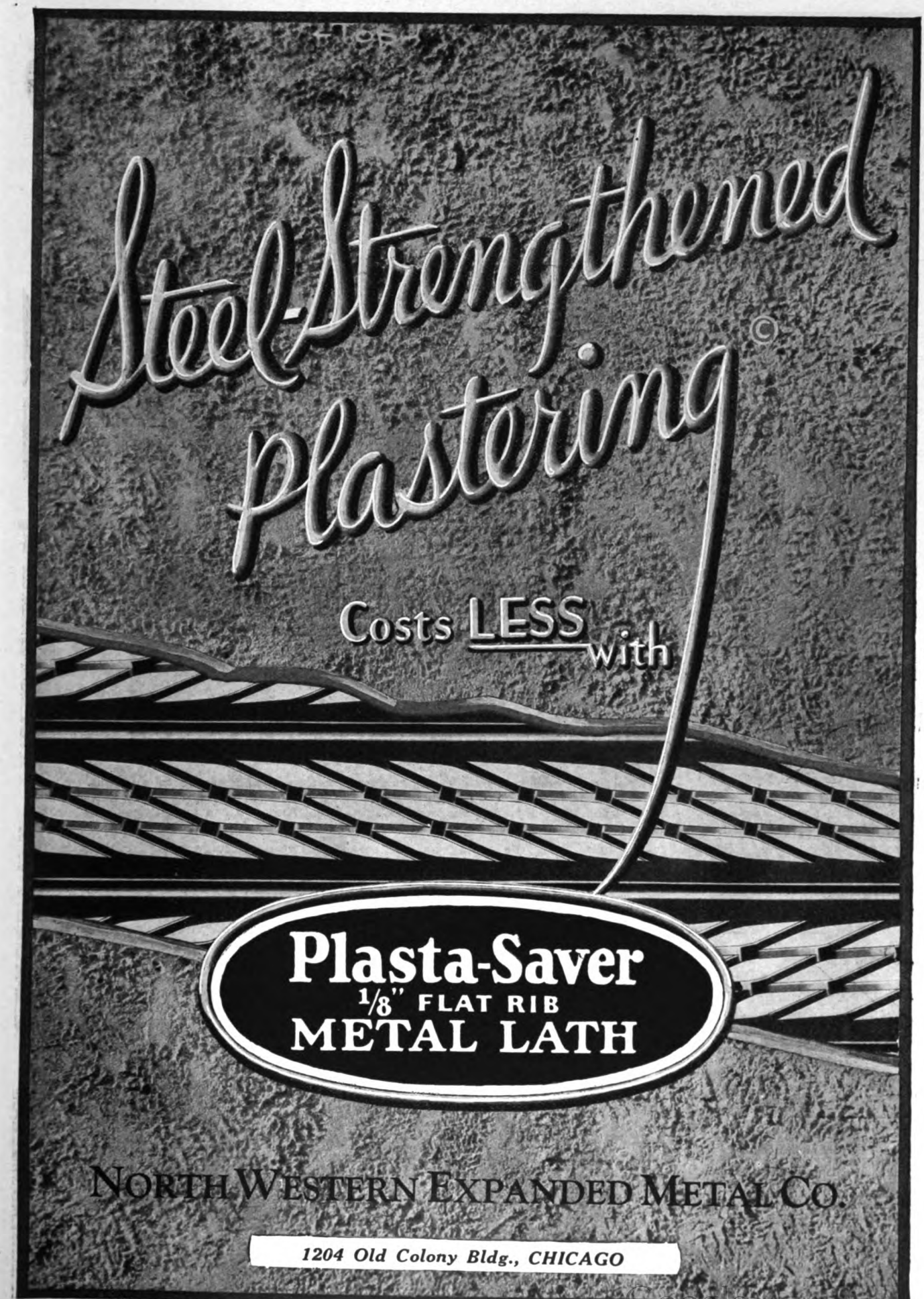
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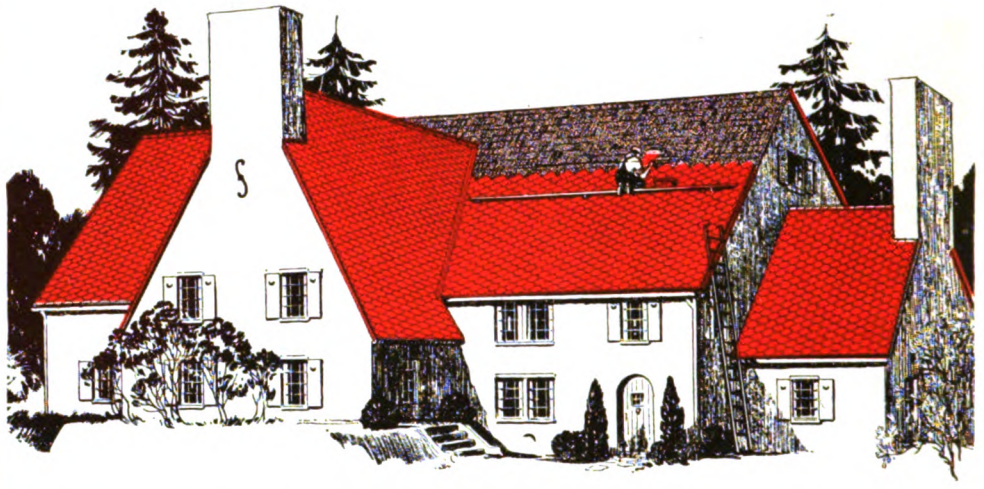
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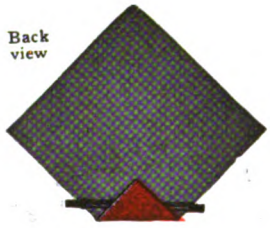


LATITE



Front view

Invisible on the completed roof, the patented "key" device is rendering a service on the back of every Genasco Latite Shingle—locks each shingle securely to those underneath—makes Genasco Latite particularly adapted for laying over old wood shingles.



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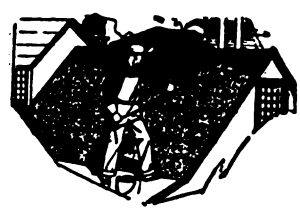
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Genasco Deadening Felt
Genasco Insulating Paper
Genasco Red Sheathing Paper
Genasco Wall Lining



Genasco Roll Roofing

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Genasco Slate-Surface Roll Roofing is more attractive in appearance—red, green, or blue-black surface—and is highly fire-resistant.



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A shingle of the straight conventional type, but the same high quality which distinguishes Genasco Latite Shingles—including the famous Genasco "Sealbac" feature, which protects the body of the shingle from the attacks of condensation and assists in the closer adhesion of the shingles to each other. Genasco Sealbac Individual Shingles furnished in three colors—red, green, and blue-black. Genasco Sealbac Strip Shingles in red, green, blue-black and multicolor.

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JOHN RUSSELL POPE

(PROMINENT NEW YORK ARCHITECT)

Says—"Wallpaper adds artistic dignity to an interior and eliminates any possible feeling of cold formality"

HUNDREDS of alert builders are using wallpaper to add attractiveness to their houses. Nothing is more forbidding than the bare walls of an empty house Wallpaper gives warmth to cold interiors.

Prospective buyers of the better types of houses are interested in wallpaper. They know that wallpaper is good style. They know that leading architects and decorators throughout the country are using wallpaper.

Six typical interiors were recently selected and approved by six of the country's most famous experts, Elsie de Wolfe, Nancy McClelland and Gertrude Gheen Robinson, decorators, John Russell Pope and Frank J. Forster, architects, and Richard Bach of the Metropolitan Museum of Art.

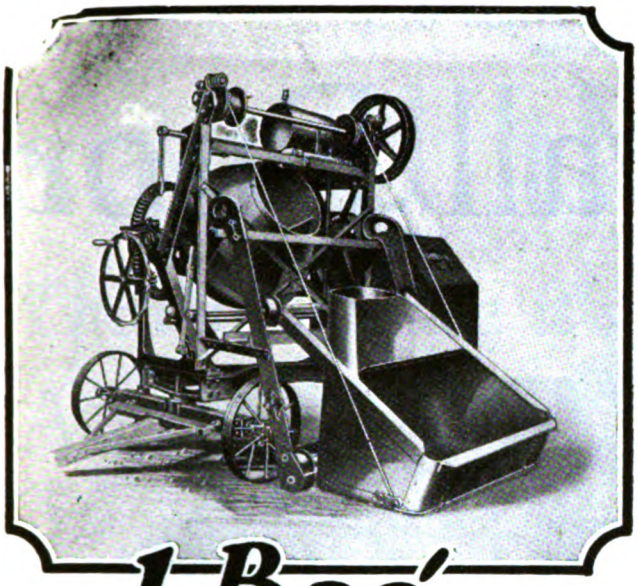


Each took the responsibility for a single room. All chose wallpaper as a medium of decoration for the walls.

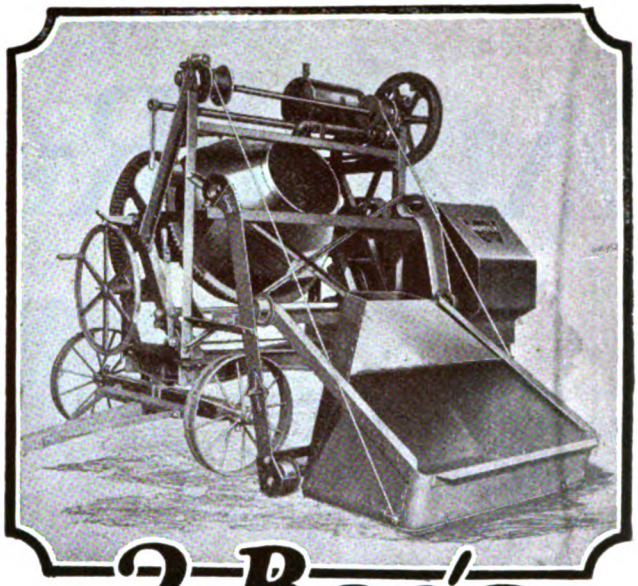
If you want to know their reasons, send for a full set of beautiful color illustrations of the entire series of interiors approved by these great authorities. These illustrations will be sent to you together with a fascinating, illustrated booklet, "Wallpaper—Room By Room", for 25 cents in stamps or coin.

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1 Bag



2 Bags

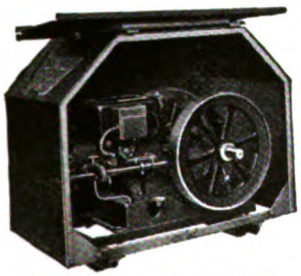
WONDER MIXERS
for the big jobs!

Wonder "7"

Here's one of the best all 'round sizes in the WONDER line. It has an approximate capacity of 10½ cu. ft. of unmixed material or 7 cu. ft. of mixed concrete. It's a speedy, sturdy one-bag machine, and is guaranteed to give many years of economical and profitable mixer service. It's extreme simplicity combined with rigid construction insure low operating costs, continuous service and long life. It will speed up your work, increase your daily output, and earn more profits for you.

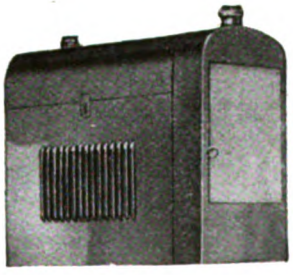
Wonder "10"

Popular demand for a dependable two-bag mixer produced this newest WONDER design. It has a capacity of 10 cubic feet of mixed concrete and will handle a 2 bag batch or proportions up to and including 1-2-5 mix. The "10" has all the WONDER features, many of them exclusive, such as the perfectly balanced mixing drum—a track type of loader with its extension advantages—a thrust screw type of loader clutch with an automatic knockout and Alemite lubrication.



The Fuller and Johnson engine is standard equipment on the WONDER "7". It's a horizontal, single cylinder, hopper cooled four cycle engine that will give dependable power at all times.

SEND today for complete information and new low prices on either of the two WONDERS pictured above or any size mixer you are interested in. Our complete catalog is Free for the asking. It illustrates the entire WONDER line—WONDER exclusive fundamental features and all 1926 improvements.



The two cylinder, Le Roi engine is furnished with the WONDER "10". It's a light-weight, heavy-duty industrial engine, built for continuous full-load service. Guaranteed absolutely.

Construction Machinery Company
WATERLOO, IOWA, U.S.A.

Western Office
455 East 3d St., Los Angeles, Cal.

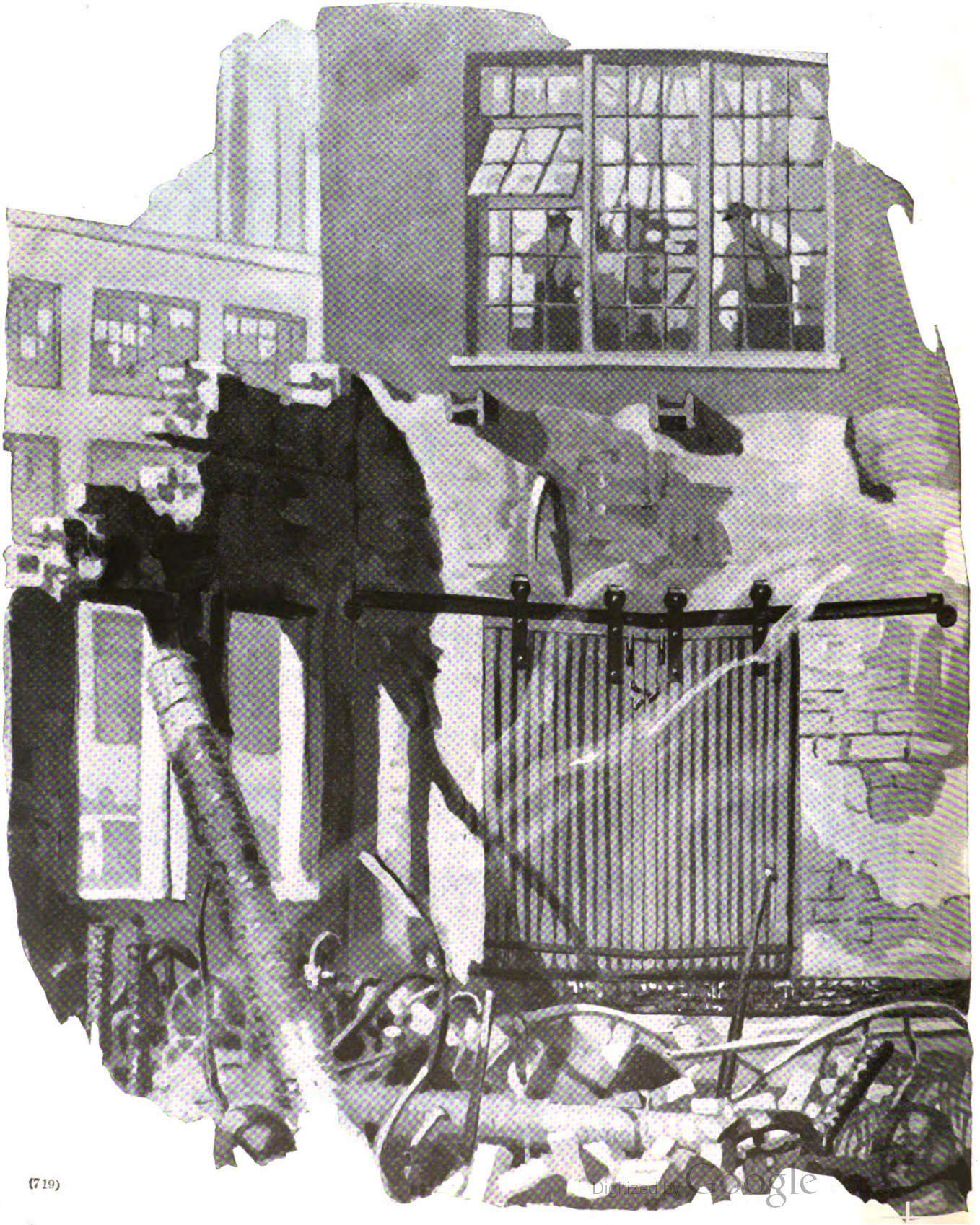
Central Office
315 W. Maryland St., Indianapolis, Ind.

Eastern Office
Widener Bldg., Philadelphia, Pa.

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INTERNATIONAL FIRE PREVENTION WEEK
OCTOBER 3rd TO 9th, 1926

A FyeR-Wall Door



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INTERNATIONAL FIRE PREVENTION WEEK
OCTOBER 3rd TO 9th, 1926

saved this plant!

That's because it's automatic

A SAVED PLANT is a lot better than the insurance on a burned-up plant.

FyeR-Wall Automatic Fire Doors have saved thousands of plants from fire, by keeping the fire outside; or minimizes the loss by keeping a fire confined.

FyeR-Wall Doors and automatic hardware are correctly made to *stop the passage of fire* —heavy corrugated galvanized sheets with thick sheet-asbestos between and fitted with the correct type of hardware to meet every conceivable condition.

FyeR-Wall economies are tangible and important—

—an unqualified guarantee for twenty-five years.

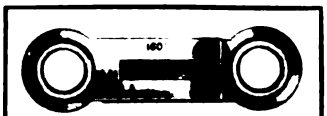
—they cost no more than tin-clad doors; they're as good as money can buy;

—they last as long as the building;

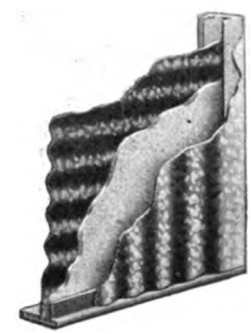
—they give you a 15% to 25% lower insurance rate;

—they work automatically, and there's no maintenance cost.

These efficient doors carry the label of the Underwriters' Laboratories after passing the highest tests.



R-W Fusible Links are made to fuse at any required degree of temperature. They are positive in action at all times.



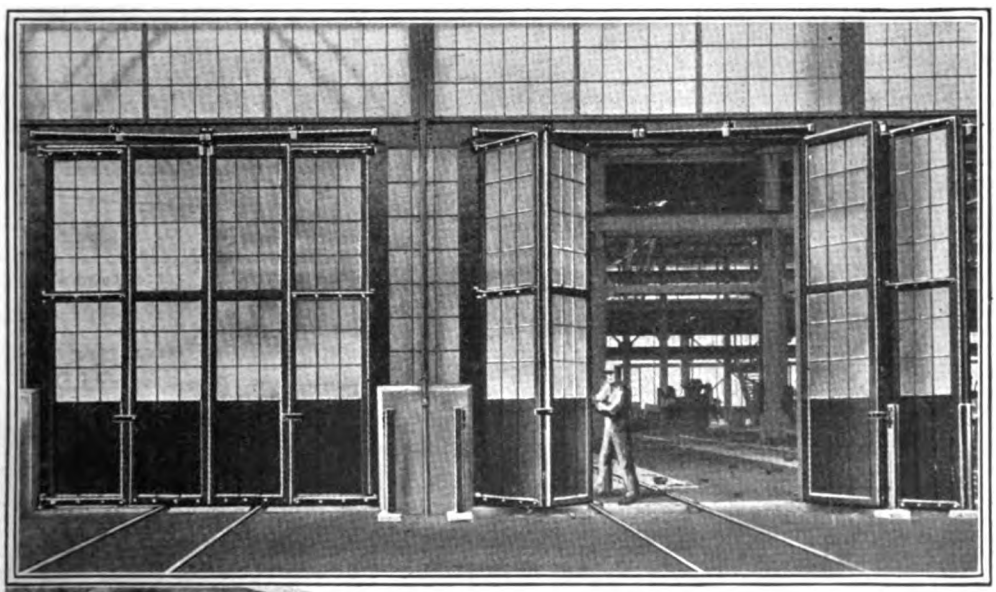
Note the rigid construction of Fyer-Wall doors with heavy steel frame. Yet they cost no more than tin clad doors.

Richards-Wilcox Mfg. Co.

A Hanger for any Door that Slides

AURORA, ILLINOIS, U.S.A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans
Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit.
Montreal · RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. · Winnipeg



A *Big Thing for Big Doorways*

The serious problem of big industrial doorways is effectively solved by *Slidetite* Industrial Door Hardware. *Slidetite* doors operate with amazing ease, stay where they are put, won't blow shut, thoroughly practical for dooways up to 30 feet wide.

Our Engineering Department's function is to help you with your door-problems. Theirs is a free service —glad to help you. Write them about your problems.



Most complete line of ***door hardware made***

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To help you sell

These moderately priced products make prospects want to buy



Coal burning
ARCO Tank

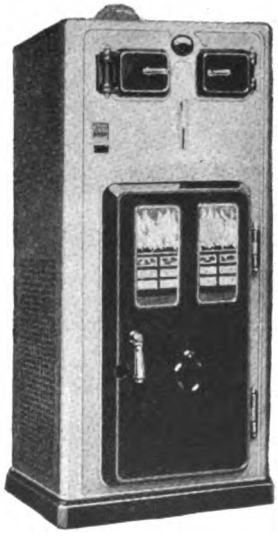
One of the first things a prospect for a house this Fall will think about is **WARMTH.**

Winter is coming and everyone is beginning to think of how he is going to solve the problem of keeping warm this Winter.

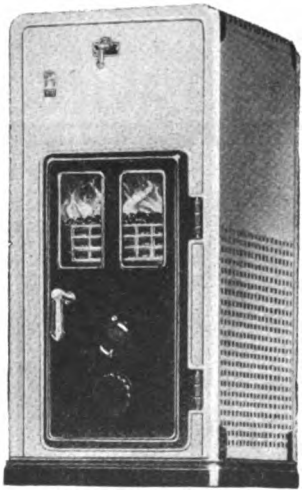
The three products shown on this page can help builders and realtors everywhere to sell houses easily.



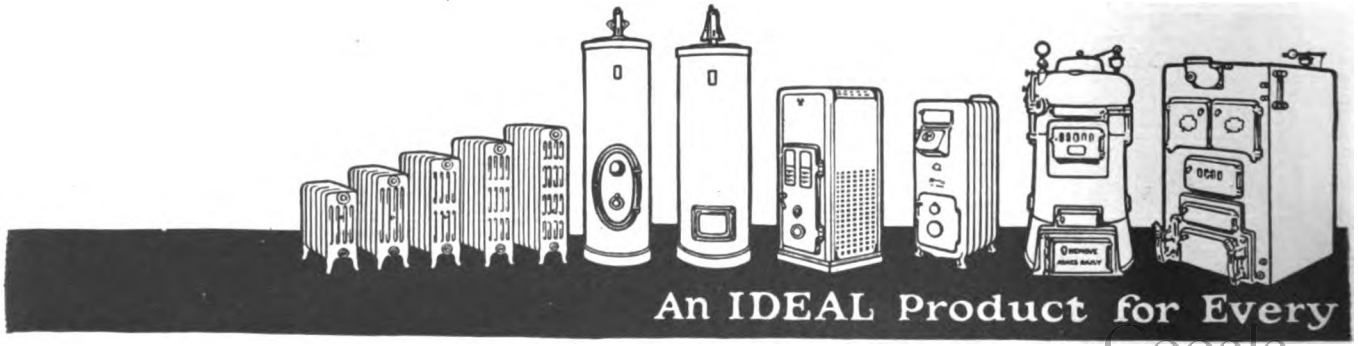
Gas burning
ARCO Tank



IDEAL ARCOLA



IDEAL VECTO



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homes this Fall

For small homes and other buildings

(WITH OR WITHOUT BASEMENT)



For six years ARCOLA has been warming small homes, stores, shops, offices, and other small buildings. It has transformed thousands of chilly houses and other buildings into places of cheery warmth and comfort.

The ARCOLA Parlor is equipped with a handsome French gray enamel jacket and with glass panels through which the fire shines. It is automatically regulated, and sends healthful hot water warmth to radiators in other rooms, besides warming the room in which it stands.

The ARCOLA Heater is unjacketed and its low cost makes it ideal for the more modest home.

For smaller homes and buildings

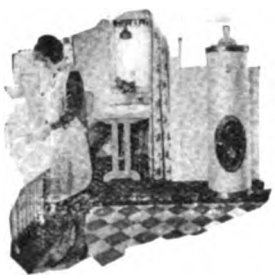
(UP TO 8,000 CUBIC FEET CAPACITY)



For the thousands of small homes and other buildings that are being erected everywhere the Ideal VECTO Heater will provide ideal warmth at lowest cost. VECTO warmth is the next best to radiator warmth that has yet been attained without the actual use of radiators.

In any home up to 8,000 cubic feet capacity the VECTO Heater may be placed in any room and will send its healthful warmth circulating to every corner of every room. And its decorative beauty adds much to the attractiveness and the salability of any home.

For every home and building



ARCO TANKS for Domestic Hot Water Supply do much to make homes better places to live in and easier to sell.

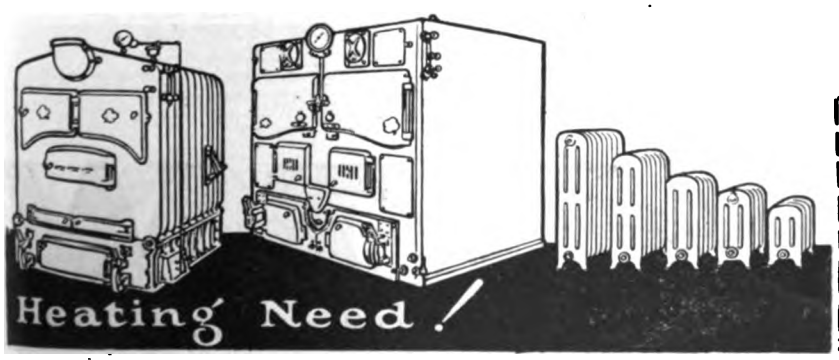
ARCO TANKS are made for both coal burning and gas burning, and there is a size to fit every need. Each tank is a self-contained unit with automatic regulation which insures running hot water at all faucets instantly, at just the desired temperature.

The coupon below will bring you a booklet which gives valuable information that every builder should have.

AMERICAN RADIATOR COMPANY

Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver, San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL BOILERS *and* AMERICAN RADIATORS *and other products for heating, ventilating, and refrigerating*



AMERICAN RADIATOR COMPANY
Direct Mail Advertising Dept. 127
1807 Elmwood Ave., Buffalo, N.Y.

GENTLEMEN: Please send me complete details on Arco Tanks for Hot Water Supply ☐, Arcola ☐, Vecto Heating ☐

Name _____

Address _____

City _____ State _____

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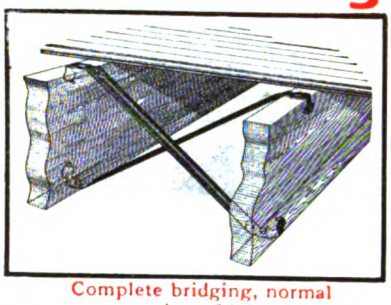
NO NAILS

TRU-

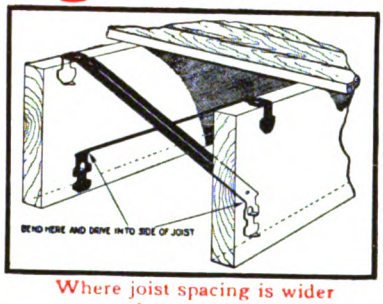
STE

BRID

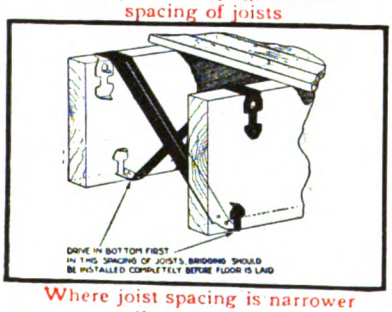
How Blaw-Knox TRU-TYE Steel Bridging is used~



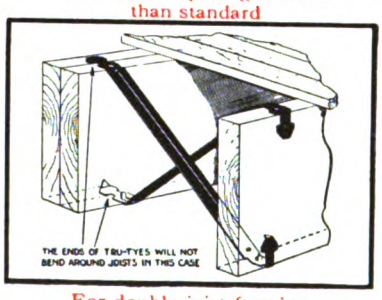
Complete bridging, normal spacing of joists



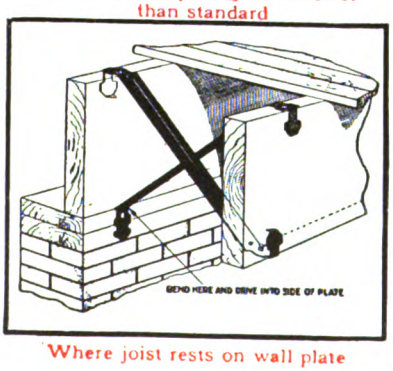
Where joist spacing is wider than standard



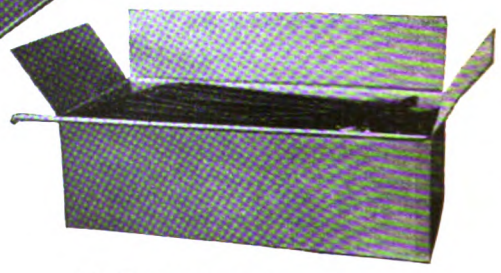
Where joist spacing is narrower than standard



For double joist framing



Where joist rests on wall plate



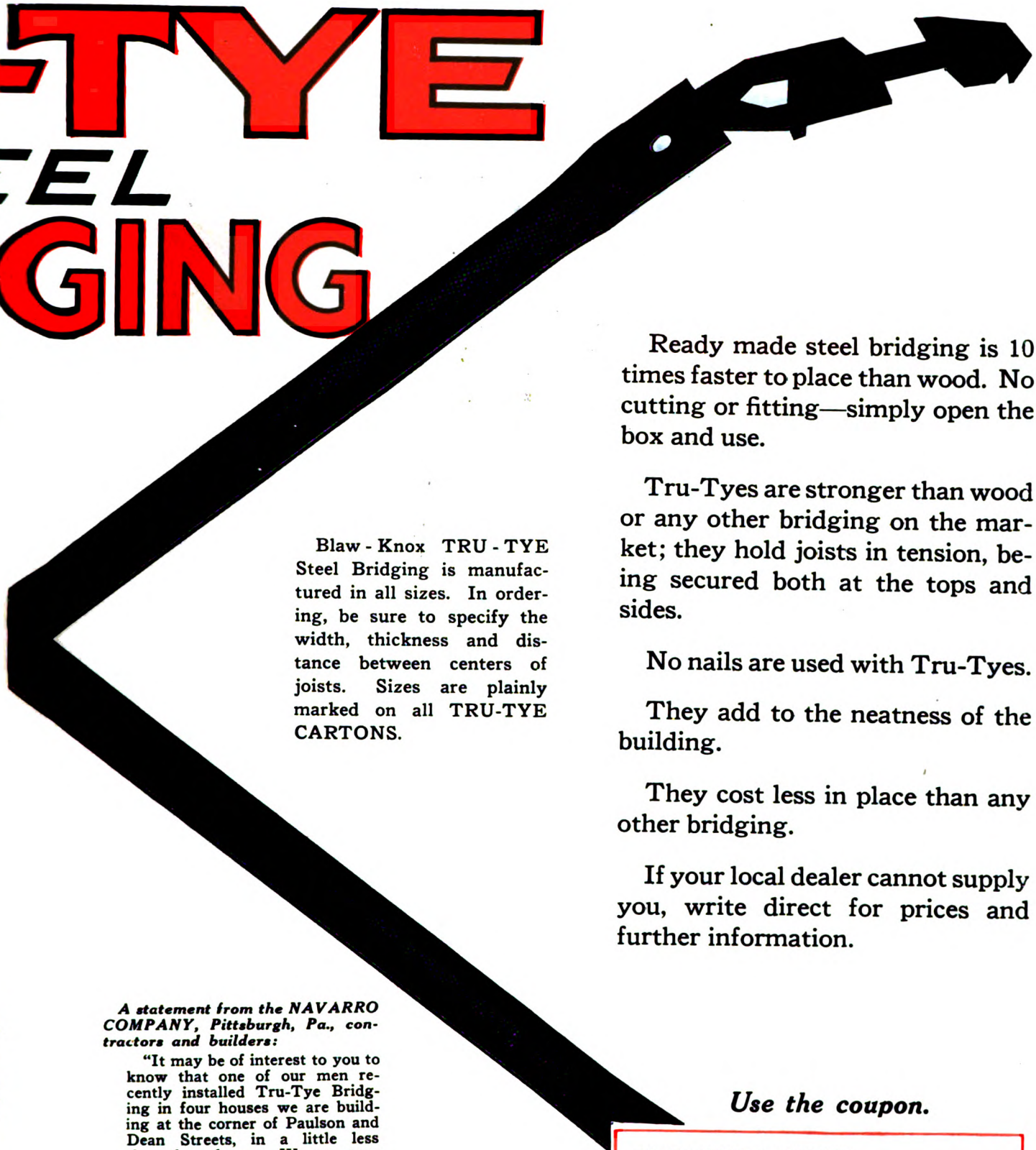
Tru-Tye Bridging is shipped in boxes of 100—ready for use.

BLAW-KNOX

BLAW-

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-TYE
TEL
GING



Blaw - Knox TRU - TYE Steel Bridging is manufactured in all sizes. In ordering, be sure to specify the width, thickness and distance between centers of joists. Sizes are plainly marked on all TRU-TYE CARTONS.

Ready made steel bridging is 10 times faster to place than wood. No cutting or fitting—simply open the box and use.

Tru-Tyes are stronger than wood or any other bridging on the market; they hold joists in tension, being secured both at the tops and sides.

No nails are used with Tru-Tyes.

They add to the neatness of the building.

They cost less in place than any other bridging.

If your local dealer cannot supply you, write direct for prices and further information.

A statement from the NAVARRO COMPANY, Pittsburgh, Pa., contractors and builders:

"It may be of interest to you to know that one of our men recently installed Tru-Tye Bridging in four houses we are building at the corner of Paulson and Dean Streets, in a little less than three hours. We are very well pleased with this bridging, as in addition to being a great time saver it makes a much neater and stronger job."

-KNOX

Use the coupon.

BLAW-KNOX COMPANY
629 Farmers Bank Bldg., Pittsburgh, Pa.

Please send me samples of TRU-TYE Steel Bridging.

Name .....

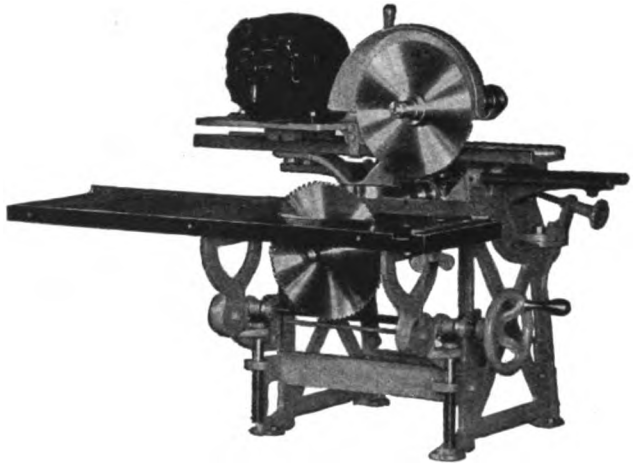
Address .....

I am an Architect ....., Contractor .....,

Dealer ....., Carpenter .....

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When this machine



Will actually do the work of 5 men—

when it will do this →

I bought a No. 12 Machine of you when I started the job I am finishing right now. I consider this machine has more than saved its price on this one job. One man can cut more stuff with this machine than 4 men can nail up.

This machine is fine for making frames, cutting pockets in frames and dadoing. I would not do without one as it is a labor saver.

W. A. HORTON
Birmingham, Ala.

and this →

I am very much pleased with my Master. Last year I did over four times the work of any previous year with very little more help.

It sure is a time saver on frames, screens and case work as most houses now have many built-in features.

On one job I made 25 windows, and two door frames all ready to nail together alone in 8 hours, boring the 400 holes for pulleys (4 to each pulley) in 18 minutes.

ROY E. CARPENTER
Ellsworth, Kansas

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and this ➔

I have used the Master on all kinds of work. Would not be without it on cabinet work. It can't be beat. I can make any cut that is needed in house work or any other work. I can rip 1" stock at about 30 feet a minute, 2" about 15 to 20 feet a minute. I consider that pretty good. I got the machine to do inside finish with, but have used it for all kinds of work. It is light. Two men can carry it any place about a building. The work I can do with the Master is unlimited, cutting rafters, studding, bridging, cutting hip and valley shingles, all kinds of dado work, making window frames, door frames, stair routing.

I am going to buy another machine and it will be a Master when I do.

G. L. BYERLEY
Toledo, Ohio

—and when it will pay you back much more than the easy monthly payments you make to us for it, how can you afford to do without it any longer?

MASTER WOODWORKER
MANUFACTURING COMPANY

612 Brush Street, Dept. A DETROIT, MICHIGAN

MASTER WOODWORKER MANUFACTURING COMPANY
612 Brush Street, Dept. A Detroit, Michigan

Send me your catalog of all Master Woodworker machines.

*Name*_____ *Address*_____

*City*_____ *State*_____

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Storm Sash cut coal bills 15% to 20%

IN Northern climates, the cost of heat in winter is an important item. It has been proved that storm sash will reduce the coal bill from 15% to 20%.

Storm sash, like the accessories on an automobile, give visible evidence that complete equipment is included in the selling price, and can be used to advantage in selling the houses you build.

The most important consideration in installing storm sash is the hardware used. Poor hardware can make the sash clumsy, hard to ventilate, and difficult to attach or remove. *Correctly-designed* hardware can make the sash *easy* to attach, *easy* to remove, and *easy* to open and close for ventilation.

Stanley Storm Sash Hardware is of the best type. We have developed several unique designs that simplify the hanging and operation of storm sash. This hardware is inexpensive, too, although in keeping with the general high quality of Stanley products.

A glance at the pictures on the opposite page will show you why you should insist on Stanley Hardware for the storm sash you put up.

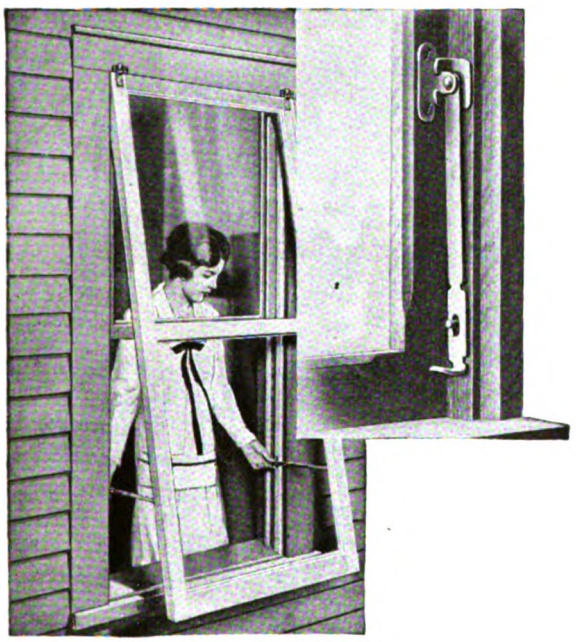
THE STANLEY WORKS, NEW BRITAIN, CONN.
New York Chicago San Francisco Los Angeles Seattle

STANLEY

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Stanley Storm Sash Hardware

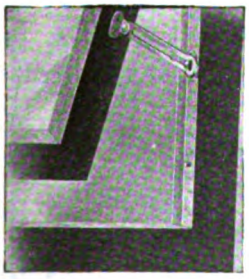
Easy to install. Made of Wrought Steel which is light and yet unbreakable. Furnished in the Japanned and Sherardized (non-rusting) finishes.



No. 1719

One of these fasteners should be applied to each side of the window casing.

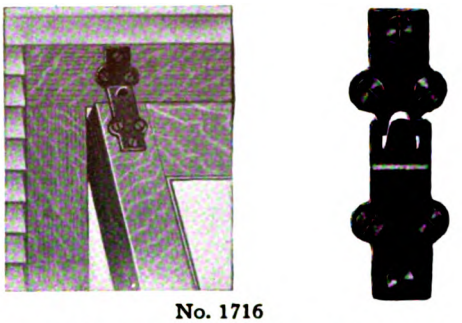
When the sash is closed the fasteners are firmly locked by engaging with the pin in the casing. Made in two lengths—5″ for windows four feet high and under, 10″ for windows over four feet.



No. 1718

One of these fasteners should be applied to each side of the window casing.

When the sash is closed the fasteners are firmly locked by engaging with the pin in the casing.

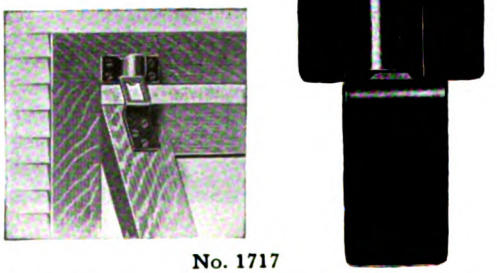


No. 1716

Designed for use on Storm Sash hung flush with the casing.

Will hold the sash snugly to the window frame and prevent rattling.

It is adapted to carry the heavier types of Storm Sash.



No. 1717

This is also designed for use on Storm Sash hung flush with the casing and will hold the sash snugly and prevent rattling.

The shape of the hook allows the sash to be hung from inside the building.

The sash can be easily removed without holding it far from the building.

Extra eyes can be furnished when desired to allow the interchanging of Storm Sash and Screen without removing the hook.

Stanley makes a complete line of wrought hardware of the highest quality. Look for this trade-mark as a means of identification.

STANLEY S.W.

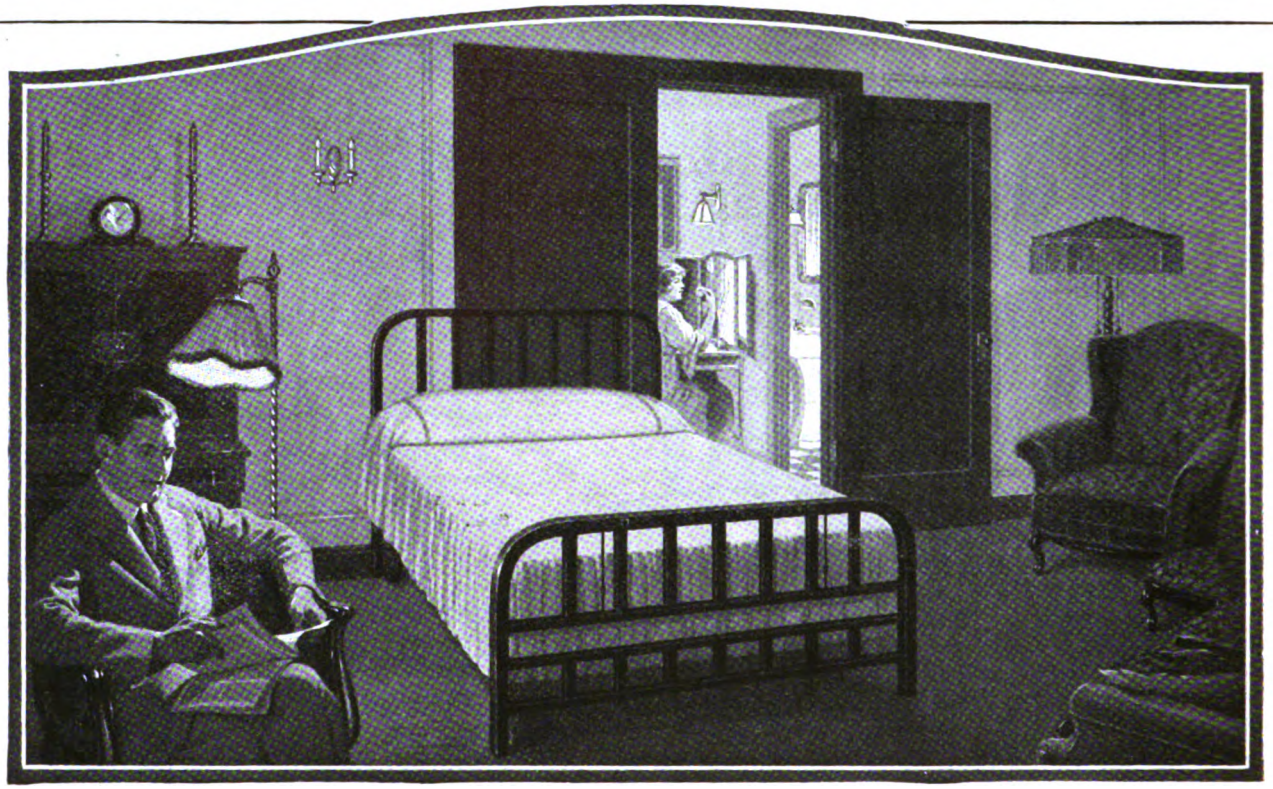
HARDWARE

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This Holmes Two-Door Sliding Pivot Bed

The Last Word in Concealed Bed Development

Offers a Saving in Floor Space and Money



Here's a plan that enables you to build with economy—yet with a new, modern touch that will delight your prospects.

With this Holmes Two-Door Sliding Pivot Bed you can plan a complete unit—living room, bed room, dressing room and bath—in surprisingly small space.

This installation affords clear passage through 2′ 6″ door to dressing room and bath, whether the bed is in the closet or in sleeping position in the living room.

HAVE YOU SEEN THE LATEST?

Write for Floor Plan and Complete Details

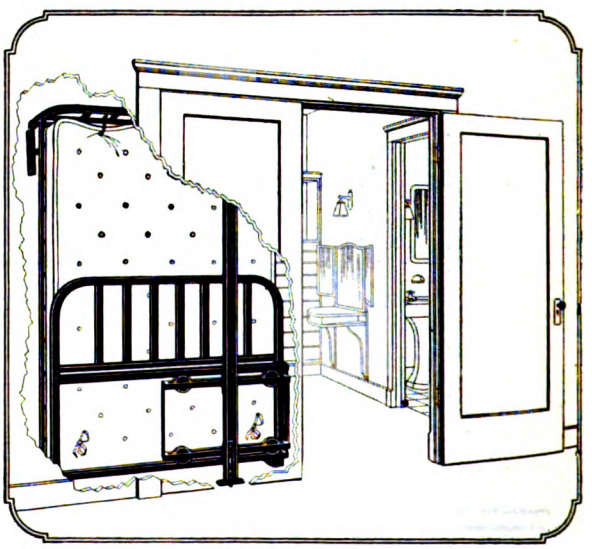


Illustration shows how bed slides out of way on ball-bearing carriage, when in closet.

DISTRIBUTORS WANTED FOR OPEN TERRITORY

HOLMES DISAPPEARING BED COMPANY, *Manufacturers*, 109 Madison Street, Woodstock, Illinois
CONCEALED BED CORPORATION, 58 East Washington Street, Dept. 310, Chicago, Illinois
Distributors for MARSHALL & STEARNS CO., HOLMES DISAPPEARING BED CO.

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APARTMENT AT 15 PARK AVE., NEW YORK CITY
Gray and Golden "Tapestry" Brick
Fred F. French Company, Architects

"They used Fiske Brick."

That means they used good judgment.

FISKE & COMPANY, Inc.
New York Boston Watsontown, Pa.

FISKE BRICK

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The Roman Building Contractor's Call for His Pipe

THE plumbarius in old Roman times had to be his own pipe maker as well as plumber. The method then in use for forming pipe is interesting enough to note in detail. Sheets of lead were rolled up into a section as illustrated here, the trough formed by the V-shaped edges providing space for soldering. These pipes have been found in existence today with walls as thick as 1¼ inches and diameters as great as 27 inches. Analysis of the solder used shows that it was pure lead with no tin in the mixture.

Today, every length of Plumrite pipe is tested at 1,000 pounds per square inch before it is shipped out—offering quite a contrast to ancient methods. On the other hand, the old Roman custom of marking the maker's name on the pipe is still followed today by this company, the trade mark of the company being placed on every length of pipe, which testifies to the bond of good faith between maker and user.

One in a series of advertisements outlining the early development of plumbing ideas. A complete folio of this History of plumbing will be sent on request.

"Bridgeport" BRASS TRADE MARK CO.
Plumrite

WE MAKE
Ledrite Brass Rod
Phono-Electric Contact Wire
Plumrite Brass Pipe
Phono-Hi-Strength Wire
Tubular Plumbing Goods
Condenser Tubes - Sugar Tubes
Brass, Bronze and Copper Sheets
Brass, Bronze and Copper Tubes
Auto, Bicycle and Pressure Pumps
Auto Accessories - Stampings
Engravers' Copper - Specialties
Screw Machine Products
Pressed or Drawn Products
Oil and Grease Guns

Bridgeport Brass Company
BRIDGEPORT - CONNECTICUT
NEW YORK PHILADELPHIA CHICAGO CLEVELAND DETROIT

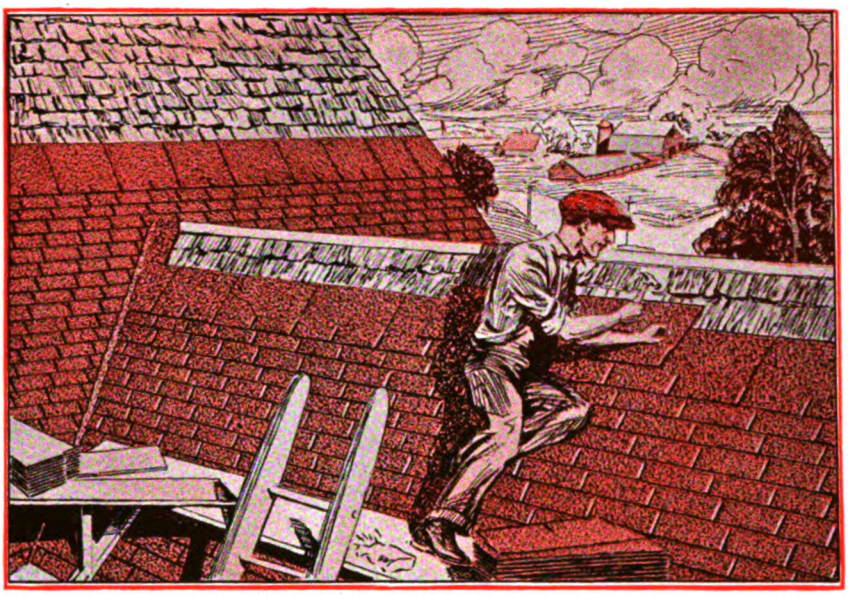


Electric Furnace Brass

Member Copper and Brass Research Association and Trade Extension Bureau

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BIRD'S ROOFS



Bird's Neponset Twin Shingles
for Roofing or Re-roofing

YOUR town, every town has them—old homes with worn-out roofs that are invitations to the rains of summer, the snows and winds of winter, and the fire menace from falling sparks and embers.

It is those homes that need the protection of BIRD'S Asphalt Shingles. And it is you that should ask for the savings and safety that comes when a fire and weather-resisting roof of BIRD'S Asphalt Shingles is laid right over your old roof.

Don't forget that BIRD Roofs are for the new buildings as well as for the old—*a roof for every type of building*—handsomely slate-surfaced in colors of Red, Green, Blue-Black or Art-Blende (a combination of russet tints).

Ask your local dealer or write direct to us for detailed information regarding BIRD'S Asphalt Slate-Surfaced Shingles and the complete line of Bird's Roofs, Waterproof Building Paper, Wall Board, Plastic Cement and Roof Coatings.

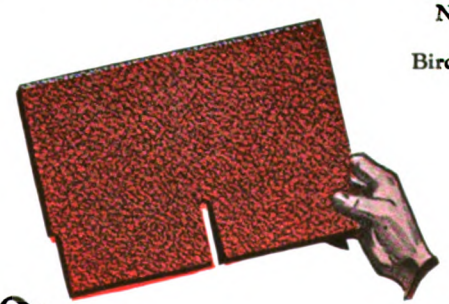
Bird's dealers can procure Hail and Tornado Insurance for Bird's Roofs at a minimum cost.

BIRD & SON, inc., East Walpole, Mass.
Established 1795

Chicago Office and Plant:
1472 West 76th Street

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- Bird's Neponset Black Building Paper
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- Bird's Neponset Rugs and Floor Covering



The one man one hand shingle!

- Bird's Twin Shingles
- Bird's Four-in-one Shingles
- Bird's Shingle Design Roll Roofing

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"FIRST IN CHARACTER AND QUALITY"

The Annual

"Own Your Home"

(Recorded U. S. Pat. Office)

BUILDING and EQUIPMENT

Expositions

CHICAGO
IN THE
COLISEUM
April 2-9, 1927
For the 7th Consecutive Year

Manufacturers and Dealers in Building Materials and Equipment

THESE Popular Annual Expositions have become Institutions of Home Building in the minds of Architects, Builders, and the thousands of potential Home Owners who attend them. They offer you an exceptional opportunity to present your Products in applied form and under service conditions, and to increase sales and prestige.

NEW YORK
AT
MADISON SQUARE GARDEN
February 19-26, 1927
For the 9th Consecutive Year

Visualizing for Home Owners and the Intending Owner the Value and the Desirability and Economy of

Good Construction
Careful Planning

Better Equipment
Improving Old Homes
Home Ownership

Beautiful Interiors
Homesite Selection

The Annual New York and Chicago "Own Your Home" Building and Equipment Expositions are the pioneers in the visualization of the "Own Your Home" Movement, and have been operated continuously under the one management. They enjoy an unprecedented prestige due to the standards set and strict adherence to a "Code of Ethics" adopted through the co-operation of over 40 professional and trade associations in the building industry.

As the Expositions grow in educational value, usefulness and service to the public, there is an increasing tendency and urge to foster good construction practices in the building of homes and more rigidly to inspect methods and materials and building operations before they are accepted for exhibition.

Inspection Before Acceptance for Exhibition

The Exposition Management does not hold itself competent to judge as to material values and for that reason it will only accept exhibits of building materials that are included in the official classification covering the character of building materials eligible for exhibit and then only after each individual concern has been approved and recommended by the Exhibit Committee under whose classification it belongs. After which it must meet with the further approval of the Architectural Committee on Management.

The New York and Chicago Expositions, as formerly, will be under the personal direction of

ROBERT H. SEXTON, Managing Director

Reservations for Exhibit Space Are Now Being Made

Further details concerning the character of exhibits, space available, and the "Code of Ethics" classification covering each exhibit section will be furnished upon request.

Write, Wire or Telephone.

Chicago Office
111 West Jackson Boulevard

"Own Your Home"
(Recorded U. S. Pat. Office)
BUILDING and EQUIPMENT
Expositions

New York Office
512 Fifth Avenue

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H. L. STEVENS CO., Chicago, *Architects and Contractors*—P. A. BLACKWELL & COMPANY, *Dealers*

What A Test Revealed About KOSMORTAR

THE selection of Kosmortar for the Richard Henderson Soaper Hotel at Henderson, Kentucky, followed a test made of several brickmortars.

The following reasons governed the selection of Kosmortar:

ONE *Kosmortar carried as much sand as any other brand, without decreasing the workability.*

TWO *Kosmortar set as hard as any other brand used in the test.*

THREE *Kosmortar was favored by the foreman and brickmasons, as being the best working mortar.*

One and two being equal, Kosmortar was chosen because of its workability.

Workability in mortar means more brick laid and more wall up, per hour and day. In Kosmortar, it is obtained without lessening strength or reducing sand content. Kosmortar speeds up every operation of masonry, saving time and money. Uniformity is guaranteed by rigid control of manufacturing processes, and by repeated laboratory tests.

Write for information on any detail in which you are interested. Kosmos Portland Cement Company, Incorporated, Sales Offices, Louisville, Kentucky, Mill, Kosmosdale, Kentucky.

KOSMORTAR

A MASON'S CEMENT

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JUST OFF THE PRESS

A New Plan Book for Builders

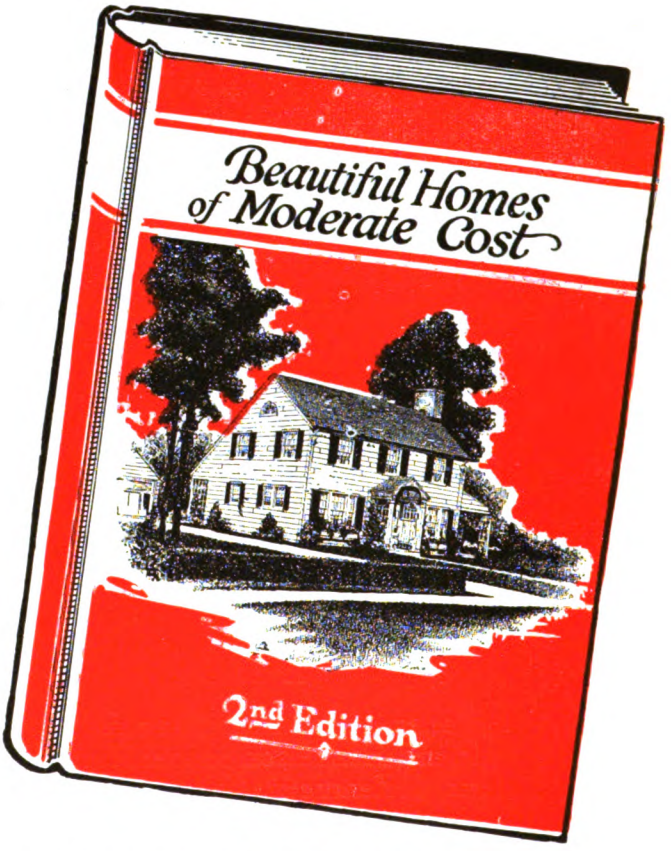
CONTAINS A SELECTION OF HOMES WITH COMPLETE WORKING DRAWINGS

HERE is the plan book that will create more business for builders and contractors.

A *New* book, containing 70 *New* designs of beautiful, moderate cost homes. Every home, whether it is the simple frame cottage or the larger residence has been designed so as to secure beauty and convenience—even for the lot only twenty-foot wide.

Complete blue print working drawings, specifications, and quantity material surveys are included in this book for four of the most attractive designs.

For all other designs, complete working drawings can be secured from Building Age and National Builder at small cost.



A Wide Variety of Architectural Styles

The homes in this new book cover practically every architectural style—American bungalow, Southern Colonial, New England Colonial, Dutch, Mission, Spanish, Italian, English, etc. The designs include bungalows and semi-bungalows, one- and two-family homes, with and without attached garages; one- and two-car garages, fences and gates, pergolas, garden furniture, etc., etc.

A book of exceeding importance to every builder, contractor, lumber dealer, draftsman, real estate operator and mortgage and loan organizations

112 pages—70 New Designs—9x12 inches—Price only $1.00.
Get one of the first copies—use the coupon below.

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BUILDING AGE and NATIONAL BUILDER,
243 West 39th Street, New York City

Enclosed find $..... for .....copies of the New Plan Book, "Beautiful Homes of Moderate Cost—Second Edition."

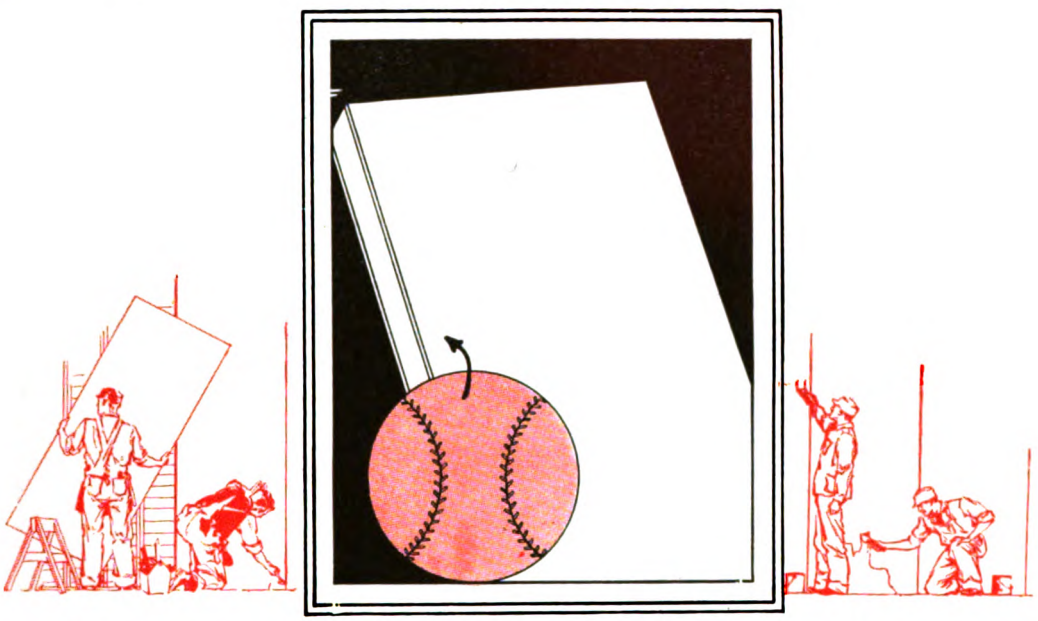
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DISCOVERED!

Important improvement in plaster wall board—*at no higher cost!*



What gives the baseball its ability to resist the terrific impacts of the bat? It is the cover. Remove it and the ball will quickly go to pieces. The same principle applies to plaster wall board.

Beaver Bestwall is covered with tough fibre

Strong and rigid as the solid rock plaster *core* makes Beaver Bestwall, it is still stronger because of the *tough fibre facing* with which we cover it.

This *fibre facing* enables Bestwall to withstand the bumps, knocks and jolts that walls and ceilings receive in daily service. Sized and calendered—smooth—it offers a perfect base for most charming decorative effects — for paint, calcimine, wall paper. It is virtually non-absorbent.

Next to the invention of plaster wall board itself we believe this Beaver Bestwall *fibre facing* is one of the most important contributions ever made to wall materials. And certainly the way Bestwall is selling today proves that people do want this superior plaster wall board *that costs no more!*

At dealers everywhere

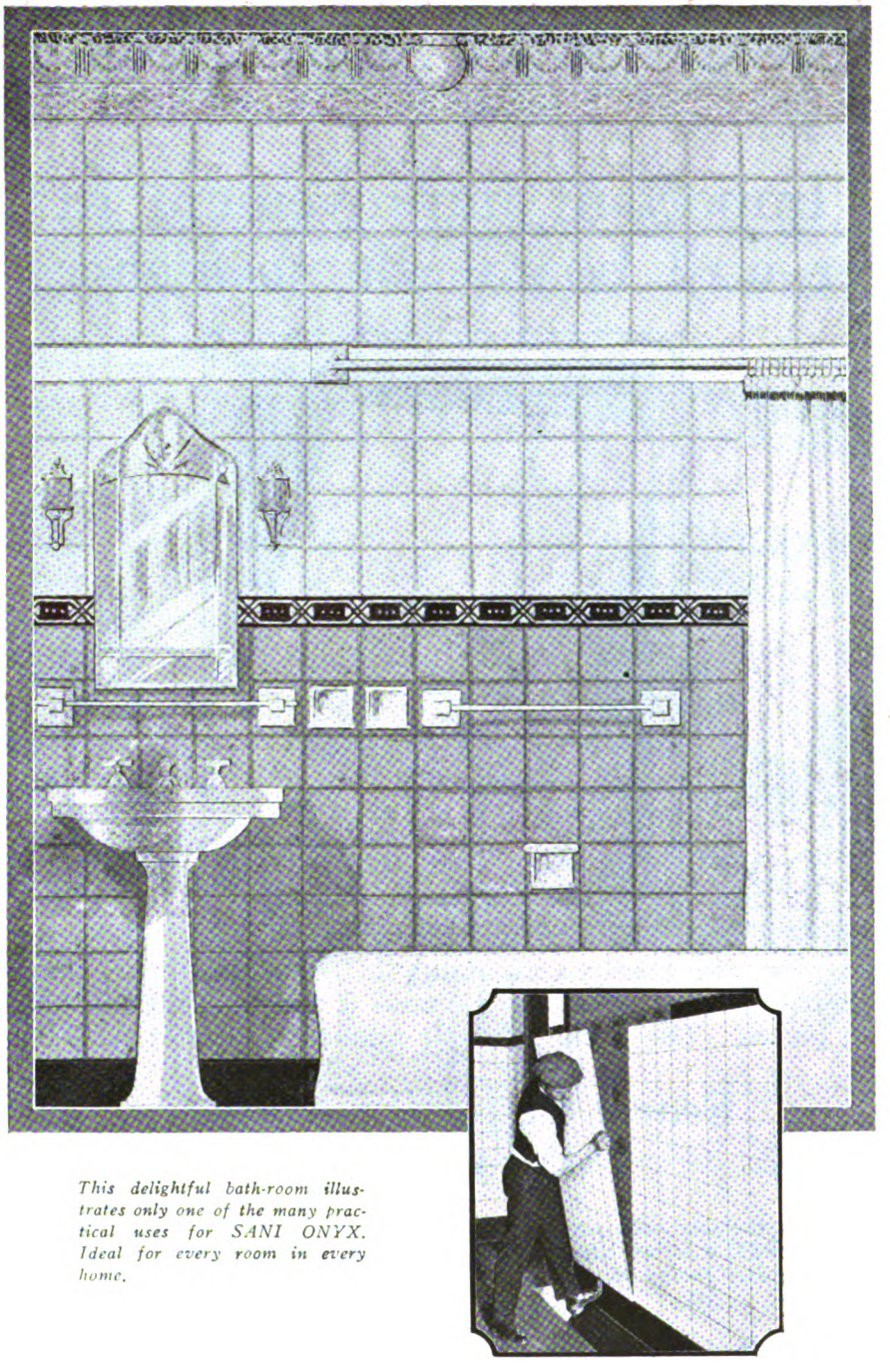
Ask for Beaver Bestwall. Progressive building supply yards carry it because they believe in it. Architects and contractors who know plaster wall board like to use it. You can always identify the genuine Beaver Bestwall by its distinctive *cream-colored* surface and the famous Beaver trade mark. Get samples from "your Beaver Products dealer" or write us.

THE BEAVER PRODUCTS CO., Inc.
Dept. 1910 **Buffalo, N. Y.**

BEAVER BESTWALL

THE SUPERIOR PLASTER WALL BOARD

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This delightful bath-room illustrates only one of the many practical uses for SANI ONYX. Ideal for every room in every home.

SANI ONYX is a vitreous substance, fused from rock ingredients—more beautiful and enduring than marble, tile or plaster. Just the thing for walls, ceilings, wainscoting, floors, etc. Available in six standard colors—White, Blue, Ivory, Green, Gray and Black; and six textures, Flame Glaze, Semi-Matte, Matte, Tapestry, Polychrome and Embossed. Any special color or design may be had to order.

With this wide range SANI ONYX affords decorative opportunities never before possible. And SANI ONYX designs and colors are *permanent*. They last for a generation without one penny of upkeep cost!

Canadian Factory: Sani Products Co., Ltd., 155 Richmond St., West, Toronto. Distributors in principal cities throughout United States and Canada.

SANI ONYX

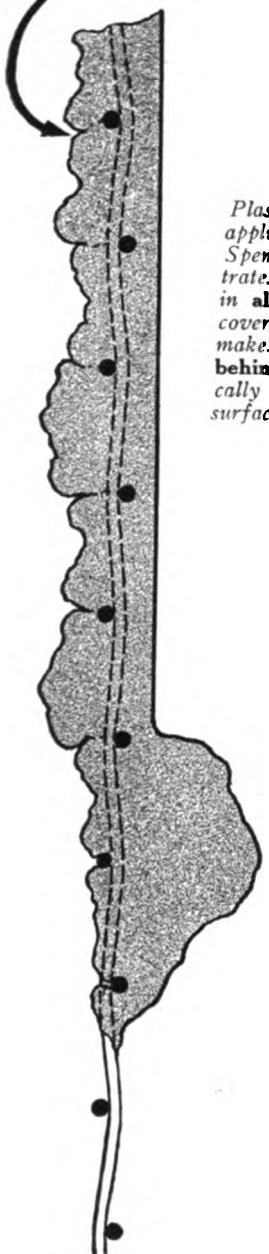
A VITREOUS MARBLE

Send for a copy of our beautiful new book illustrating actual SANI ONYX installations in full color. Address, Sales Promotion Dept.

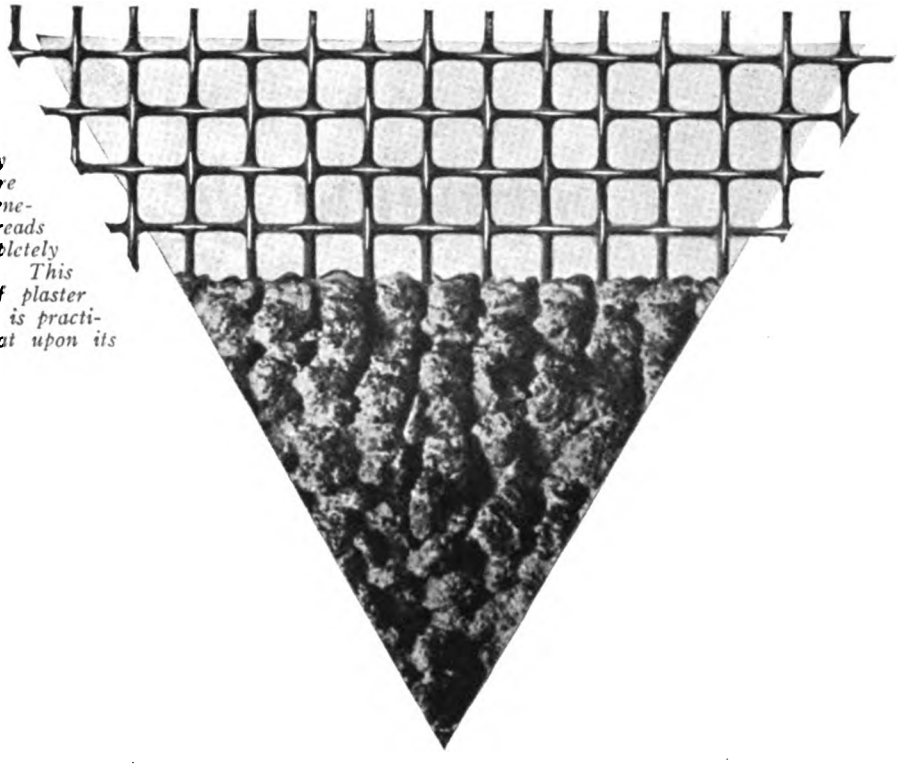
MARIETTA MANUFACTURING CO., INDIANAPOLIS, INDIANA

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THE PERFECT KEY



Plaster, when properly applied to Wickwire Spencer Wire Lath, penetrates the mesh and spreads in **all directions** *completely covering the wires. This makes a solid wall of plaster* **behind the lath** *which is practically as strong as that upon its surface.*



It Provides A DOUBLE Key

A *double* key for plaster or stucco is furnished by Clinton Wire Lath.

Some metal laths key the plaster no better than wood. They offer only horizontal edges for the plaster to cling to.

But with Clinton Wire Lath strong horizontal and *vertical* support is given, firmly embedding the mesh in the *center* of the plaster.

No matter what direction of stroke is used in trowelling, the same perfect key results. With Clinton Wire Lath a fine lasting job is assured—one that will add both to the permanence of the building and the reputation of the builder.

These are but a few of the factors which determined its specification in such notable structures as the Pershing Square Building, the Metropolitan Museum of Art, the Federal Reserve Bank Building, the Winged Foot Golf Club and others.

An informative handbook on Clinton Wire Lath will be sent you on request.

WICKWIRE SPENCER STEEL COMPANY

General Offices: **41 East Forty-second Street, New York**
Western Sales Office: **208 South LaSalle Street, Chicago**

WORCESTER BUFFALO CLEVELAND DETROIT
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WICKWIRE SPENCER PRODUCTS

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Controlling the Output of a Great Basic Industry

SEVENTY-NINE plants manufacturing Cinder Concrete Building Units are connected with the National Building Units Corporation—nineteen plants through ownership, and sixty plants through license.

The NATIONAL BUILDING UNITS CORPORATION

—realizing the responsibility this great combined output entails, is developing one high standard for Cinder Concrete Building Units, to be uniform throughout the United States and Canada.

Constant experiment and research are being conducted in engineering laboratories by recognized authorities. The unique insulative and structural advantages of the Cinder Concrete Building Unit are being made available to a greater number and in constantly improved form.

The consolidation of Cinder Concrete Unit manufacturers will be extended from time to time to include new plants, in sections of the country where territorial rights have not yet been assigned.

All plants comprising the consolidation will manufacture and sell for building purposes

CINDER CONCRETE BUILDING UNITS

Manufactured under Straub and Bo Patents

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ALLITH

Among Architects

there is an unwritten law that "the finest building has never been built, and never will be."

This may be so. But there are some that are mighty hard to beat. In these better buildings from Hell's Gate, New York, to Golden Gate, California, you will find A-P Door Hangers—put there by men who know that the sweetness of low price never equals the bitterness of poor quality.

A-P hardware is good enough for Riverside Drive and cheap enough for Main Street. In it we have combined fine quality and fair price so that true economy is possible on first cost and in future use.

500 Illustrations

No architect's, contractor's or builder's library is complete without Allith-Prouty Catalog No. 95, an authoritative 128 page book with 500 illustrations of all kinds of door hardware and installation views. Write for it on your business stationery. Keep it handy. Then specify the A-P line on every building from the warehouse to the woodshed.

ALLITH-PROUTY COMPANY

Manufacturers of

Garage Door Hardware
Fire Door Hardware
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Overhead Carriers
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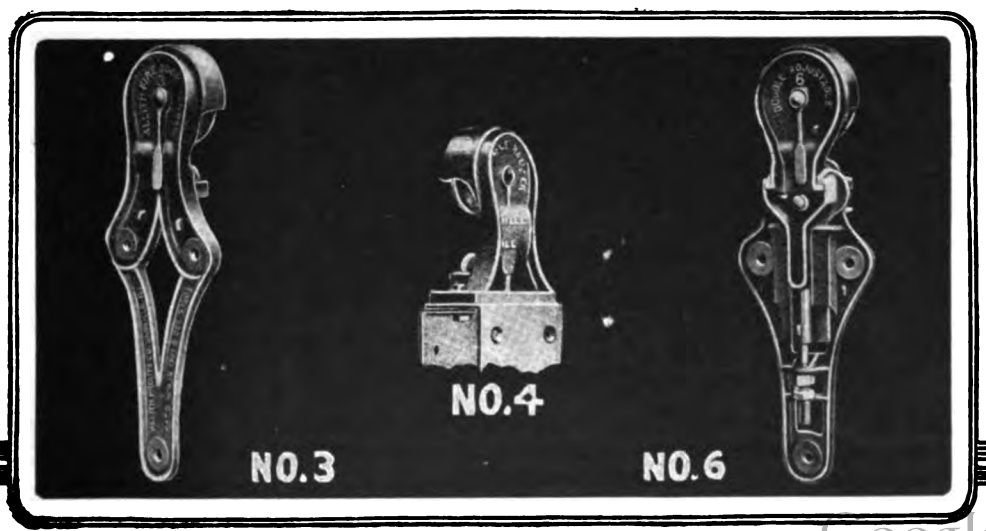
"Seventeen"

No. 17 —Double adjustable A-P Hanger. Approximate capacity 1 ton. For doors 1¾ to 2¾ in. thick.

No. 3 —Rigid A-P Hanger. Approximate capacity ½ ton. For doors 1¾ to 2¾ in. thick.

No. 4 —Flush A-P Hanger. Approximate capacity ½ ton. For doors 1¾ to 2¾ in. thick.

No. 6 —Adjustable A-P Hanger. Approximate capacity ½ ton. For doors 1¾ to 2¾ in. thick.



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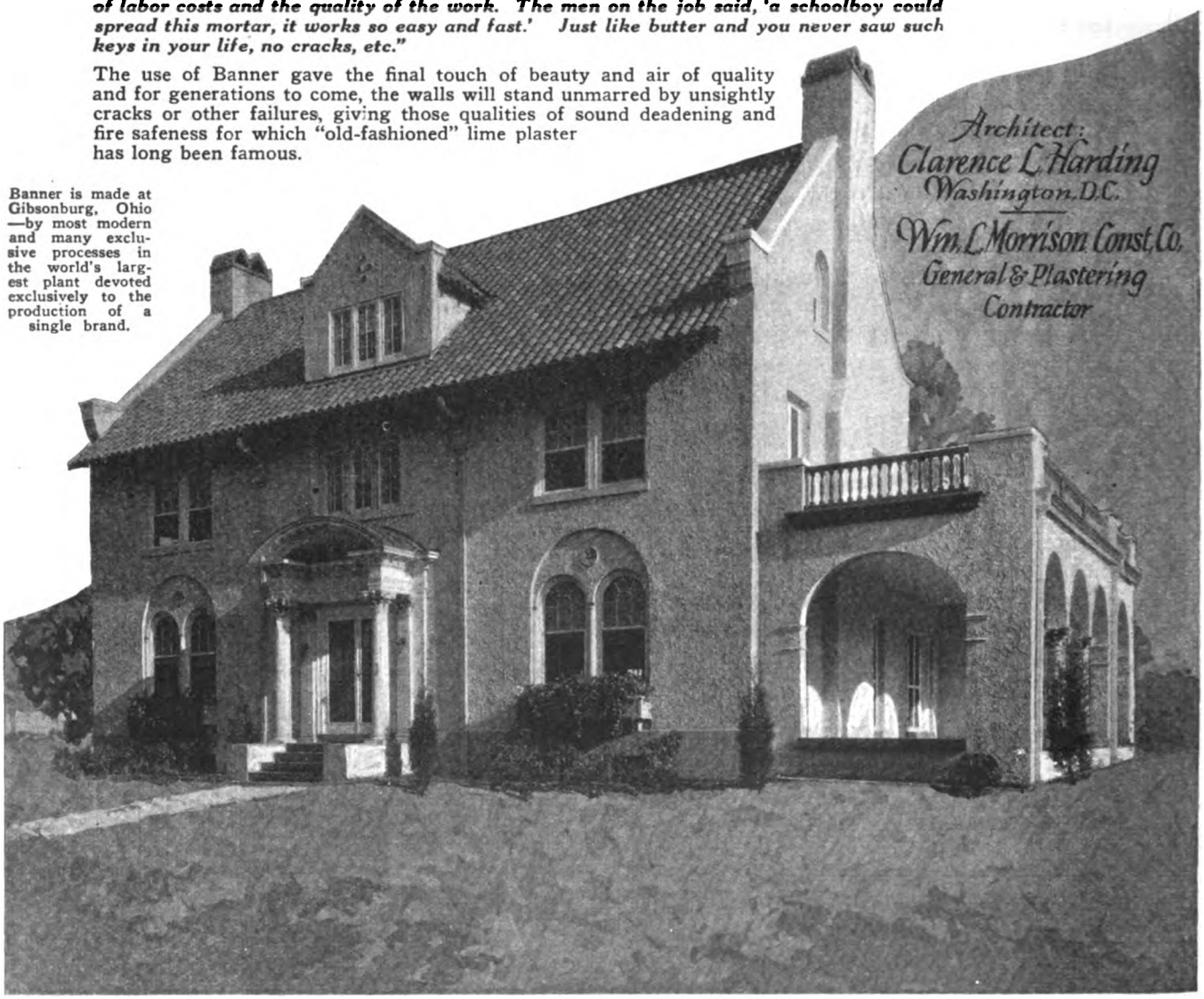
Banner Finish plays a dual role in this beautiful home at Chevy Chase, Md.

MR. HENRY M. CAMP, owner of this splendid home on the outskirts of the National Capital, was so well pleased with the results from using Banner—not only for the finishing of interior walls and ceilings but for first and second coat plastering and exterior stucco as well—that he wrote us as follows:

"The plastering is all Banner Lime tempered with a proportion of Portland cement, machine mixed. It is a remarkable job and a very economic one from the standpoint of labor costs and the quality of the work. The men on the job said, 'a schoolboy could spread this mortar, it works so easy and fast.' Just like butter and you never saw such keys in your life, no cracks, etc."

The use of Banner gave the final touch of beauty and air of quality and for generations to come, the walls will stand unmarred by unsightly cracks or other failures, giving those qualities of sound deadening and fire safeness for which "old-fashioned" lime plaster has long been famous.

Banner is made at Gibsonburg, Ohio—by most modern and many exclusive processes in the world's largest plant devoted exclusively to the production of a single brand.





Banner

Easy to Spread Hard to Beat!

NATIONAL MORTAR & SUPPLY CO., *Pittsburgh, Pa.*

The Best Building Supply Dealers Everywhere Stock Banner

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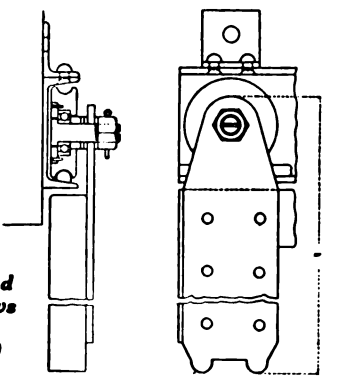


No. 750 Hanger with a section of Track

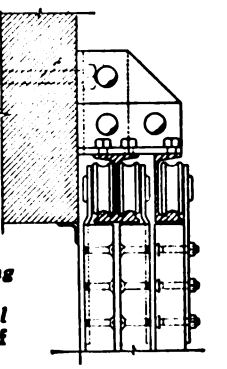
Ball Bearing Hanger—Structural Steel Track

THE No. 750 Hanger—All parts hand-machined. Equipped with highest grade New Departure ball bearings. Runs smoother and easier than any other hanger on the market.

The No. 750 Track—The only structural steel track made. Stronger. Easier to install. Tensile strength so great that but half the usual number of brackets are required. Can be installed in half the time with half the work. No joints—track is cut to exact length for job, eliminating joints and trouble of aligning. Takes up less room. Track can be used as lintel when necessary or advisable. The runway for trolley wheels is made of drawn steel specially shaped to our design. This wonderful new Hanger and Track will solve many doorway problems for you. See below.



Front and side views of No. 750 Hanger



Showing three parallel runs of track

New! No. 750 Hanger & Track

HERE is a distinctly new type, heavy-duty hanger and truck that is so well constructed that it is definitely guaranteed in writing to give satisfactory service. Easy to operate. This latest Coburn achievement, the new free rolling, long lasting No. 750 Type Door Hanger and Track has been designed for use where long wearing qualities and smooth running are the first considerations.

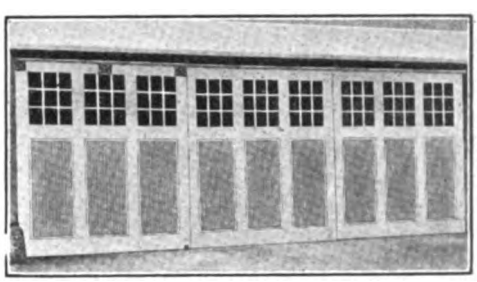
There is no other Hanger, no other track like this No. 750. The Hangers are made up special for each job. The Hanger can be designed for practically any sliding door made for single, double or triple sliding doors also for doors which slide around a corner.

The No. 750 Hanger and Track will provide free and perfect movement of doors of any weight when used to close openings of any size. Especially adaptable to large garages, bus sheds, elevator doors, and baggage, freight and subway car doors. The design, the ball-bearing construction of the Hanger and the use of structural steel in the track make this No. 750 outfit practically indestructible. (See details of construction above.) Capable, we believe, of lasting as long as any building in which they are installed.

While new to architects and building contractors generally, No. 750 Hangers and Track have been thoroughly tested in some of the country's large industrial plants for over three years. They already have the enthusiastic endorsement of the Fisk Rubber Company, McCallum Hosiery Company, Ford Motor Company at Detroit and many other well-known concerns who have tested them on all sizes and types of doors.

Coburn engineers will gladly co-operate with you in designing a special No. 750 Hanger for any particular requirement you may have. Send coupon for complete information on this remarkable new Door Hanger and Track. Coburn Trolley Track Mfg. Co., Dept. G7, Holyoke, Mass.

COBURN
SLIDING DOOR HARDWARE
INVENTORS AND MAKERS OF PRESENT TYPE SLIDING DOOR HARDWARE SINCE 1888 ©



***Above illustration shows Three-Speed Doors operating through gearing as one unit at the American News Building, New York City. Opening is 37 feet wide. Doors easily operated by one man.**

—::—

The Buyer for Ketcham Lumber Company of Philadelphia, Pa., writes: "We equipped our garage with your No. 750 Hanger and Track two years ago. In spite of the roughest kind of service they show no signs of wear and are operating perfectly. Your No. 750 outfit is certainly in a class by itself."

**The Coburn Trolley Track Mfg. Co.,
Dept. G7, Holyoke, Mass.**

Please send me booklet giving complete information on your new 750 Door Hanger and Track.

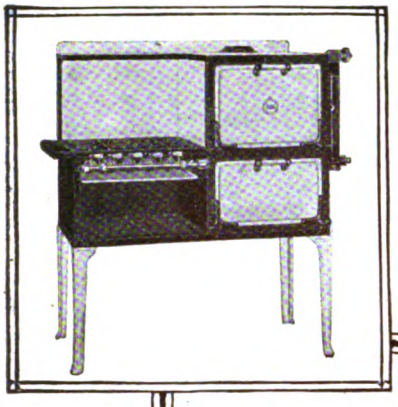
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City ..... *State* .....

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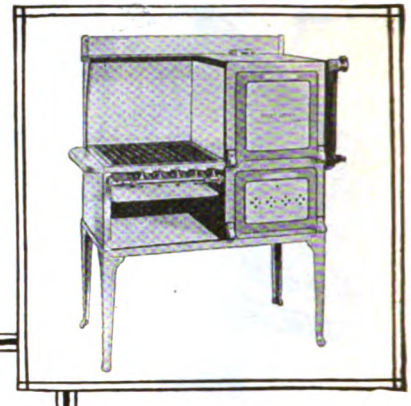
Clark Jewel No. R260 Lorain
Extreme width with shelf, 48″. Oven 16½″ wide, 18½″ deep, 12″ high.



Dangler No. 2024 EF Lorain
Extreme width with shelf, 41″. Oven 14″ wide, 18″ deep, 14″ high.



Direct Action No. 114 ARHR Lorain
Extreme width with shelf, 47″. Oven 14″ wide, 18″ deep, 14″ high.



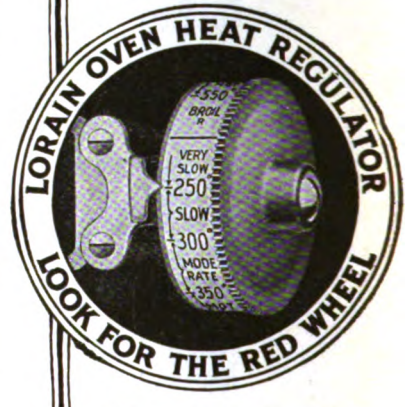
Stoves DO make a Difference

AN old-fashioned, box-like stove that requires stooping or a range without a Lorain Oven Heat Regulator lowers the selling- or rental-value of any dwelling. It pays to consider home-buyers and tenants who recognize the Lorain Red Wheel as a guarantee of easier, better cooking.

Thousands of women have learned to cook in the Lorain-equipped laboratories of more than 1800 schools and colleges. Millions see the Lorain advertisements that appear continually in thirteen big, national publications.

These women look for the Red Wheel that identifies Lorain, the original Oven Heat Regulator, completely made and unconditionally guaranteed by American Stove Company and found only on these six famous makes of Gas Ranges: **Clark Jewel, Dangler, Direct Action, New Process, Quick Meal** and **Reliable.**

The illustrations show six popular-priced Lorain-equipped Gas Ranges designed especially for compact kitchens. Red Wheel Ranges are made in all sizes, styles and finishes—for any building where cooking is to be done. For additional information, see Sweet's Catalog, 20th Edition, Pages 2769-2778, or send for our *"Handbook" for Architects and Builders.*



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.

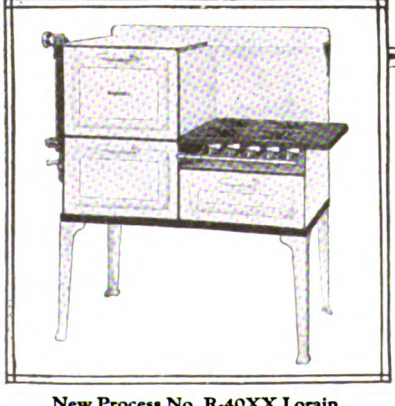
Unless the Regulator has a RED WHEEL it is NOT a LORAIN

AMERICAN STOVE COMPANY

Largest Makers of Gas Ranges in the World

222 Chouteau Avenue ∴ ∴ St. Louis, Mo.

LORAIN OVEN HEAT REGULATOR



New Process No. R-40XX Lorain
Extreme width with shelf, 48″. Oven 16½″ wide, 18½″ deep, 12″ high.



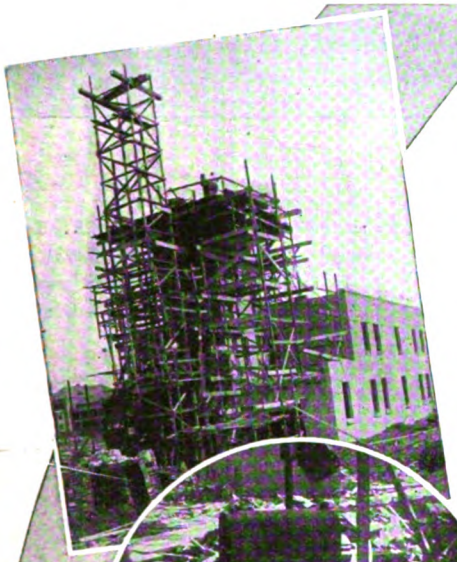
Reliable No. 6931 Lorain
Extreme width with shelf, 44″. Oven 16″ wide, 18″ deep, 12″ high.



Quick Meal No. 5-414 Lorain
Extreme width with shelf, 45½″. Oven 14″ wide, 18″ deep, 14″ high.

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15 Buildings Cover Twenty Acres—*De Riso Bros. Use Six Novo Hoists*



FIFTEEN buildings, covering an area of twenty acres, are being built by De Riso Bros., New York City, for the Brooklyn State Hospital.

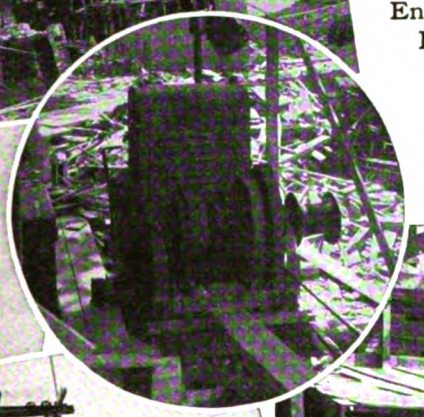
Size of project: Five million bricks, twenty-five thousand yards of concrete—two thousand lineal feet of pipe tunnels. Six hundred men—one hundred fifteen of whom are bricklayers—are employed.

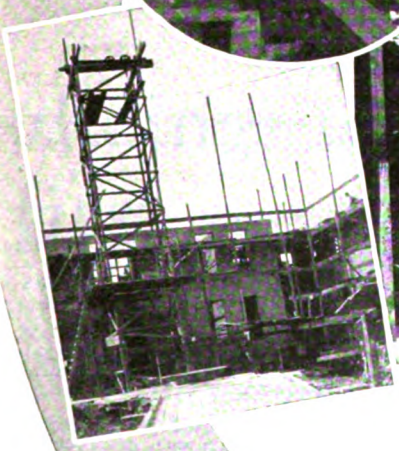
Six Novo Hoists—powered with Novo 25 H.P. Industrial Gasoline engines are being used on this job. The single drum Novos handle elevators serving the bricklayers. The double drum Novos handle concrete buggies. Mr. F. T. Hatch, Supt., and Mr. J. G. F. Weber, Field Engineer, are thoroughly satisfied with the performance of the Novo Hoists.

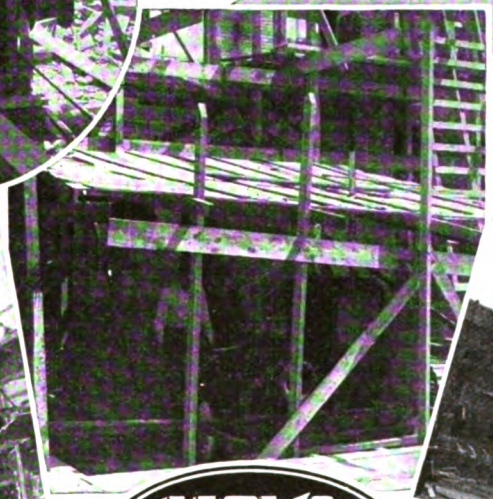
Your job—small, moderate in size, or large, will be economically handled by Novo Industrial Construction Equipment—Engines, Hoists and Pumps.

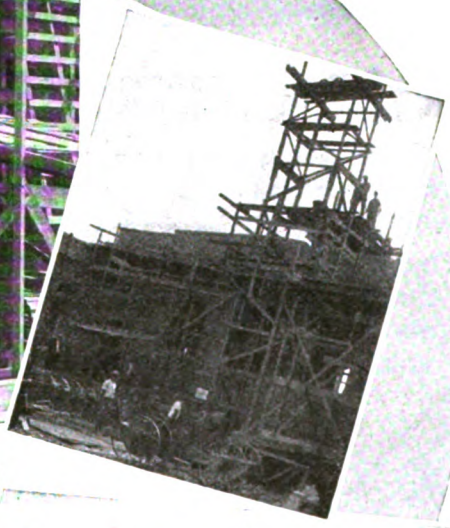
De Riso Bros. use Novo *profitably*. So can *you!*

NOVO ENGINE CO.
Clarence E. Bement, Vice-Pres. & Gen. Mgr.
LANSING — MICHIGAN









NOVO POWER





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The 20th CENTURY WOODWORKER

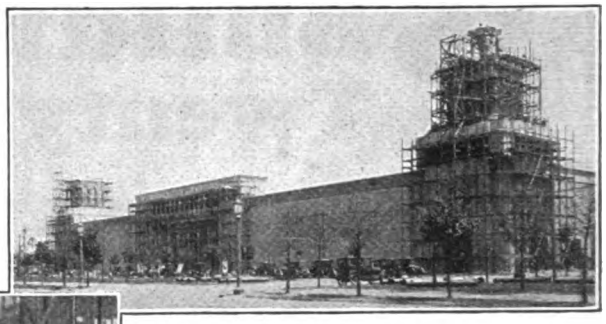
Helps at the Sesqui-Centennial

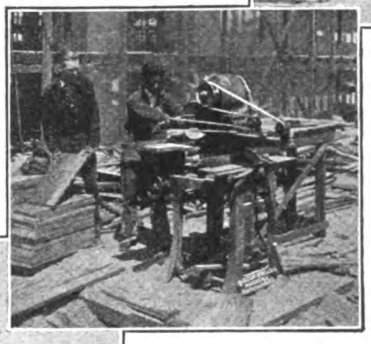
by Cutting more than 1,000,000 *ft. of Lumber*

IF you have 1 ft. or 1,000,000 ft. of lumber to cut, it will pay you to become personally acquainted with the 20TH CENTURY.

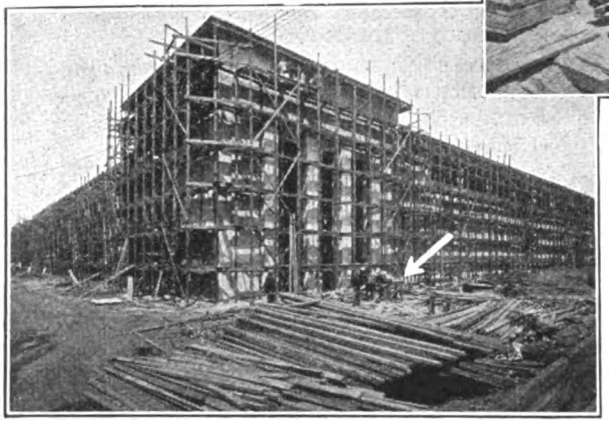
Your woodworking problems are ours. Let us help you solve them by putting you in touch with our nearest representative.

Send in the coupon for Illustrated Catalog.





Patented December 15, 1925 Licensed under U. S. Patent No. 1482631, February 5, 1924. Other Patents pending in U. S. and foreign countries.



No job too large or too small for the 20TH CENTURY WOODWORKER.

The arrow shows the machine at work on the Palace of Transportation, Machinery, Mines and Metallurgy.

The 20TH CENTURY was first used on the Palace of Liberal Arts. The speed and efficiency of the machine enabled the contractors to use it consecutively on both buildings. Read what the contractors, Michael Melody & Son Company, say about the performance of the 20TH CENTURY.

MICHAEL MELODY & SON COMPANY
INCORPORATED
BUILDING CONTRACTORS
1322 RACE STREET
PHILADELPHIA, PA.
MEMBER ASSOCIATED PENNSYLVANIA CONSTRUCTORS

July 13, 1926.

Cresson-Morris Co.,
18th & Allegheny Avenue,
Philadelphia, Pa.

Gentlemen:

Regarding 20th Century woodworker Saw Rig which we purchased from you recently for use on Sesqui-Centennial Construction Work, we wish to express our complete satisfaction with the operation and service quality of this saw. We used this rig on the Palace of Liberal Arts and the Palace of Transportation, Machinery, Mines and Metallurgy on which buildings upwards of one million feet of lumber was used.

The Woodworker is still in excellent condition and we expect it to perform much profitable service for us in the future.

Yours truly,

MICHAEL MELODY & SON CO., INC.

WJD:AD

Per W. J. Dave
Secretary

Cresson-Morris Company
Allegheny Avenue and 18th Sts., Philadelphia
Please send full particulars on the 20th Century Woodworker.

Name .....

P. O. .....

St. or R. D. .....

State .....

CRESSON-MORRIS COMPANY

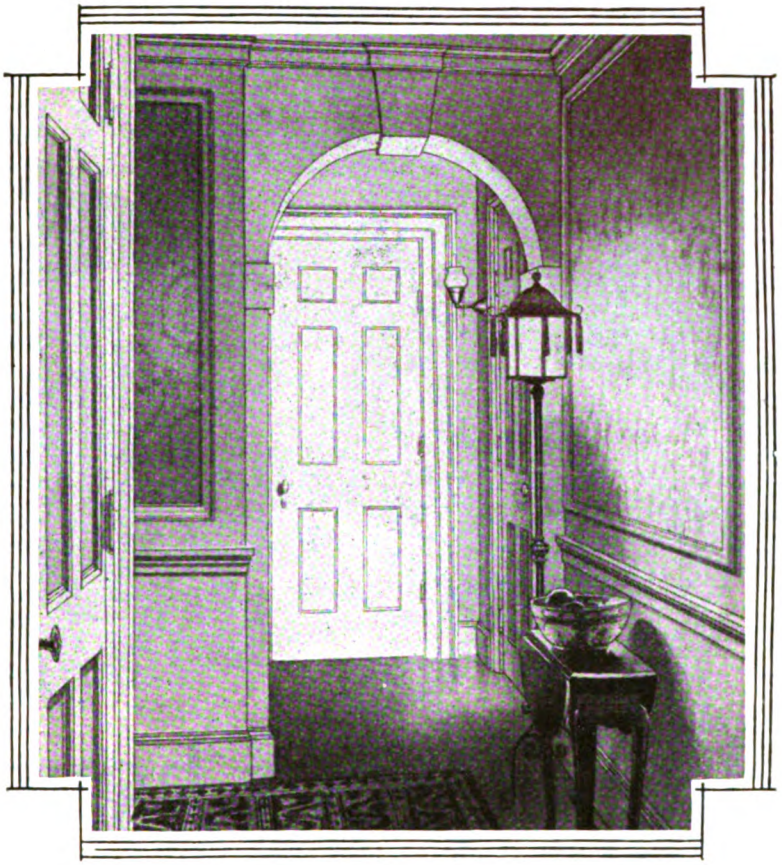
Manufacturers

EIGHTEENTH STREET AND ALLEGHENY AVENUE

PHILADELPHIA, PA.

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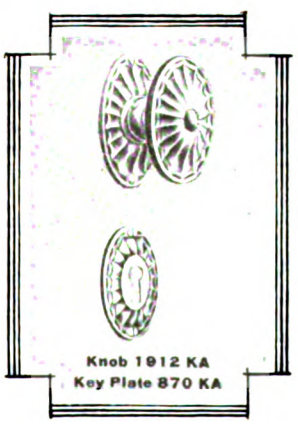
SARGENT
LOCKS AND HARDWARE



If you want your buildings to be out of the ordinary first see that your hardware is

THE importance of hardware cannot be overemphasized. Nothing in a building gets harder usage. To many builders hardware has become more than so many necessary knobs and handles, locks, window-fasteners and hinges. Through the selection of unusual or distinctive designs in solid time-resisting brass or bronze, hardware provides them with one of the most practical ways of convincing prospective buyers that they have built for beauty, convenience and permanence in every detail.

Sargent knobs and handles of solid brass or bronze are made in a great variety of appealing designs. In such variety that you can always choose just the pieces that will best serve your every need. They are all handsomely designed and executed, never complaining in operation. Sargent easy spring locks are the last word in lock construction and are made for both exterior and interior door sets. Every part of them is fitted to work with the greatest ease and quiet under every condition of service.



Knob 1912 KA
Key Plate 870 KA

There are representative Sargent dealers in all cities. Visit the one near you. Let him show you the most popular patterns. He will gladly furnish suggestions, costs, etc.

SARGENT & COMPANY
Hardware Manufacturers
52 Water Street New Haven, Conn.

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Attractive placard supplied free to builders using Laminex doors. This neat, artistic sign (7½″x4½″) is made to hang on door knob, or any place where people will see it.

Help sell your houses with this Laminex sign

BUILDERS have made a new discovery about Laminex, in addition to its freedom from warping and winding. Those who are using Laminex doors *and letting people know it*, are finding that houses are easier to sell.

To help you "let people know it" is our aim in supplying attractive signs like the one shown here. We are also furnishing builders with a large exterior fibre sign for use on Laminex jobs.

National advertising backed by sensational demonstrations, has spread the fame of Laminex doors. The result is that people who have previously taken common door-troubles for granted, are immensely impressed with the "fool-proof" character of Laminex.

Therefore, we not only urge you to use Laminex doors, but to use our help in letting people know it.



The famous soaking test as originated by Prof. Bror L. Grondal, proving that Laminex is unaffected by moisture. Under this sensational test, repeated in all parts of the country, no Laminex door has ever warped or come apart.

E. P. Janes, well known builder and investment banker of Southern California, said when specifying Laminex for a group of 61 houses: "The fact that Laminex doors are free from warping and shrinking eliminates rehanging and refitting. I also find that the use of a nationally advertised and widely known product like *Laminex, greatly assists in making sales.*"

And with all that, Laminex is priced on a level with the ordinary kind of door . . thanks to huge production.

Popular designs stocked by millwork and lumber merchants. Look for brand name and guarantee label on end of every door. Write for literature and sample of Laminex wood to test.

Sales Offices: New York, Chicago, Memphis, Los Angeles, San Francisco, Spokane. Foreign: Woco Door Co., London; E. J. Van de Ven, Paris; Paul Solari & Co., Genoa.

THE WHEELER, OSGOOD COMPANY, Tacoma, Washington

LAMINEX DOORS

WILL NOT SHRINK, SWELL OR WARP

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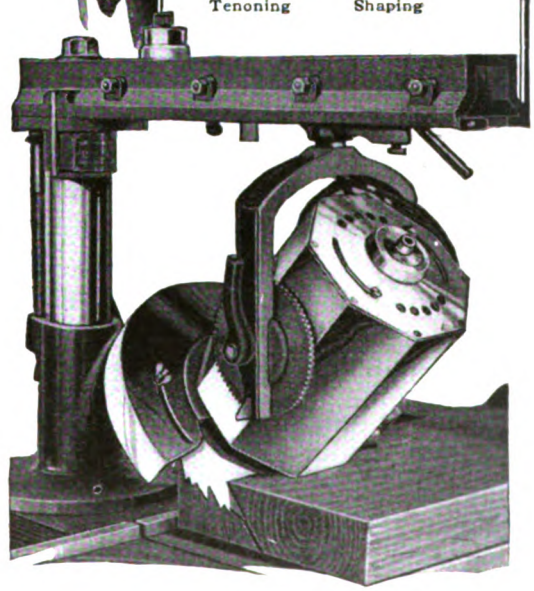
"Boss, it gives me five extra arms"



ANY carpenter who has ever used a DeWalt will tell you the same. Free your men from mere muscle drudgery and let them give you the skill on which their wages are based. Never pay more than three cents an hour for sawing power—that's all it costs with a DeWalt. And you'll save about 5% on lumber, too, by reducing waste.

Six Times Faster On All These Jobs

Jackrafter Cuts	Moulding
Cross Cutting	Fluting
Ripping	Dadoing
Mitering	Routing
Beveling	Sanding
Matching	Panel Raising
Polishing	Turning
Mortising	Boring
Tenoning	Grinding
	Shaping



The DEWALT Electric Carpenter

saves a good 25% on cost of framing and trim—putting more dollars into your pocket. Runs from any electric light socket—and runs economically because all the power is delivered right to the job, direct from motor-shaft. No wobbly, wasteful belts. Only the DeWalt has direct drive.

Helper can easily operate a DeWalt. Work lies flat on table at all times with layout marks always in sight. No tilting; saw can be moved to any position. Tools changed in thirty seconds.

Four convenient sizes—½ H. P. to 4 H. P.; cutting capacities, 1" to 5". Weight only 240 to 265 pounds. Easily carried upstairs by two men, or lifted on back of a Ford.

DEWALT PRODUCTS CO.
Leola, Pa., U. S. A.

See the DeWalt in action at your State Fair—or at the Sesqui-Centennial. Meanwhile get acquainted with all it can do for you, by mailing this coupon.

Get this into the Mail TODAY

DEWALT PRODUCTS CO., 402 New Holland Ave., Leola, Penna.

Just how can the DeWalt Electric Carpenter make more money for us?

Individual.....

Firm.....

Address.....

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The SKYLINE of Fine Switch-dom



Do your Jobs Stand Out on the "Good-Wiring" Horizon?

PICTURE in one group the finest buildings you've put up. Bunch together your best jobs, and take a "skyline" view of your Reputation. There it is—in your outstanding work; the jobs you can point to with pride and with absolute confidence.

What of the *wiring*—the control of the lighting—the electrical service—does that *stand out* too? Will it always function smoothly, dependably at the owner's touch?

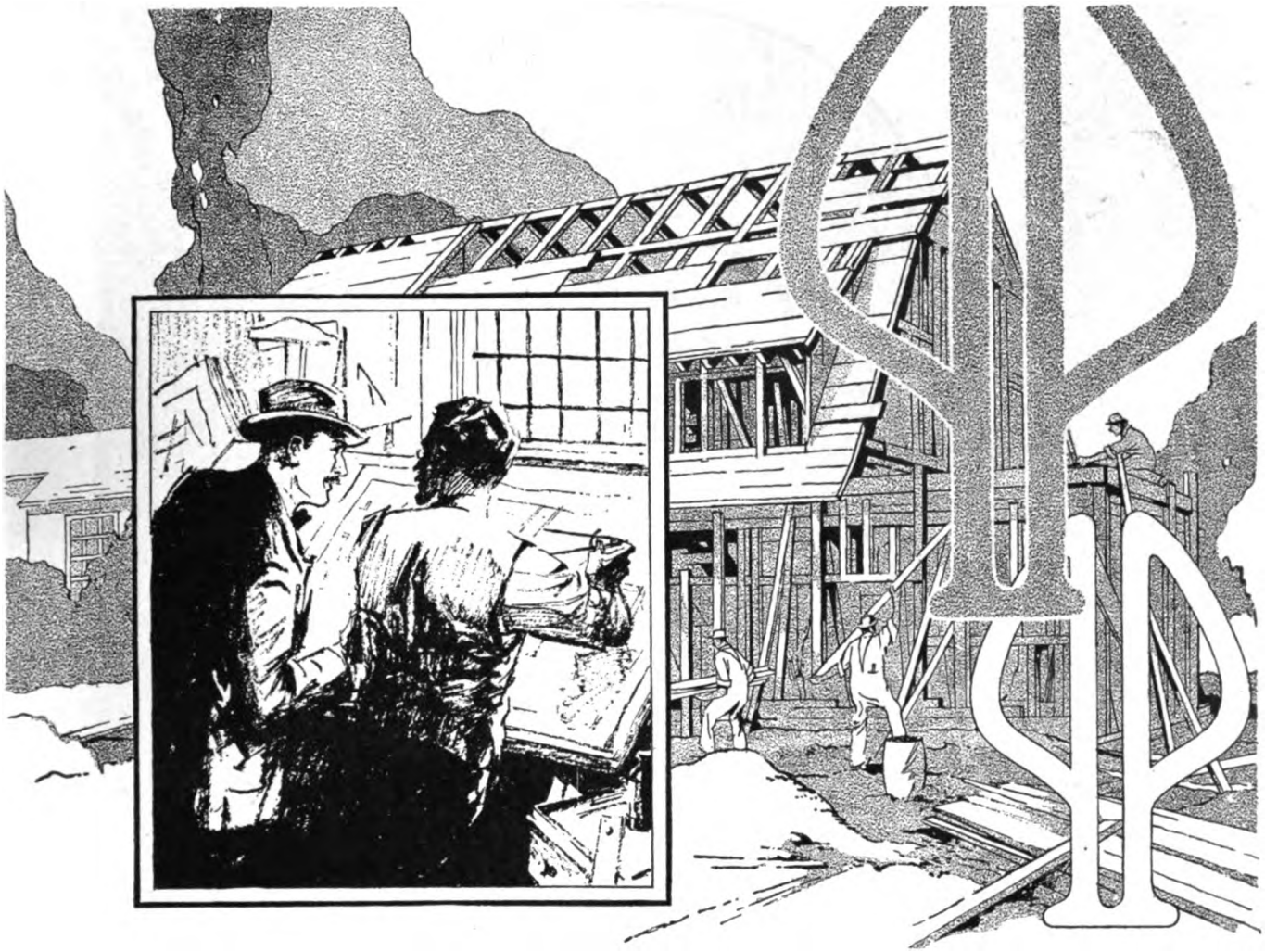
The "functioning" part of the job being the Switches, we make them stand for your building standards in three distinct price-levels. For the costly edifice, the GOLD STAR Push—or the "8901" Tumbler. For the medium-price job, "2081" Push—the friendly OLD RELIABLE. For competitive-price jobs, NUTMEG Push or "8601 Square" Tumbler.

More than anything else you install, the *Switches* put your electrical work on the upper level of good construction and sound Reputation.

Have you started using the new Catalogue "S" in specifying for Fall contracts? Have us mail you a copy if you haven't one.

THE HART & HEGEMAN MFG. CO. HARTFORD, CONN.
Makers of Electric Switches since 1890

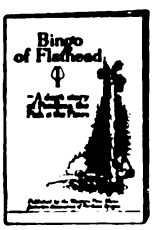
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Pride of the Inland Empire, choice of those who build

Pondosa Pine! Sovereign of softwoods. The ideal lumber for building and repair. Light in weight, yet strong. Saws, planes, nails just the way you want your lumber to. You'll like working with Pondosa. It's always beautiful, economical, and mighty adaptable. Every trade-marked stick is rigidly *graded,* thoroughly *seasoned* and carefully *milled.*

Millions of acres of Pondosa grow in the Inland Empire of the Great Northwest, and new growth is added every year. There's more than enough to supply the needs of all those who build. For sale by good lumber yards. Ask for it by name. Write for booklet. Address Dept. 23, Western Pine Manufacturers Association of Portland, Oregon.

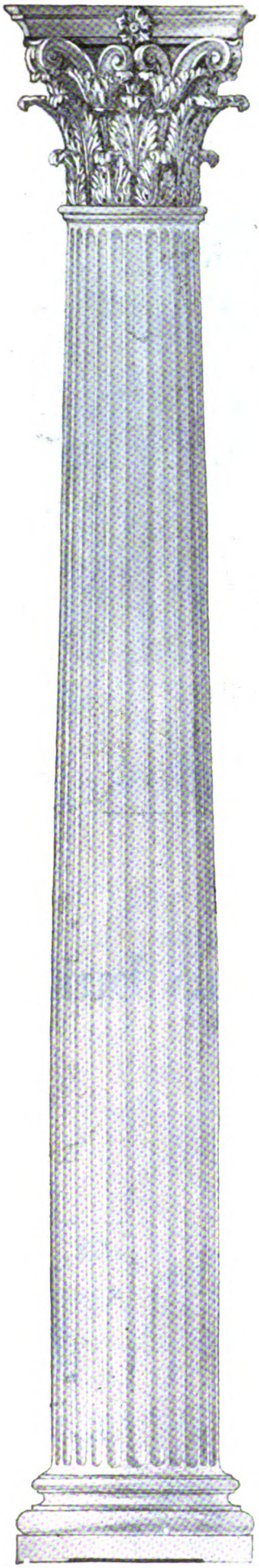


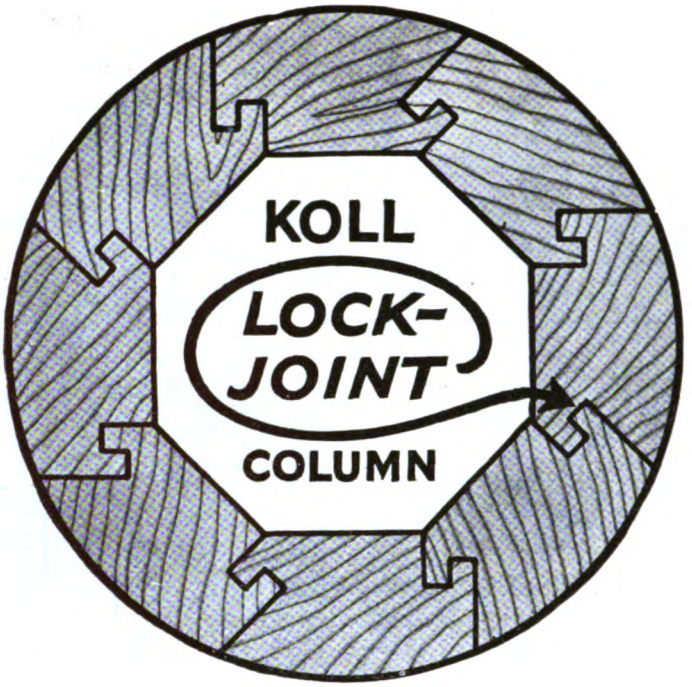
Write for this booklet

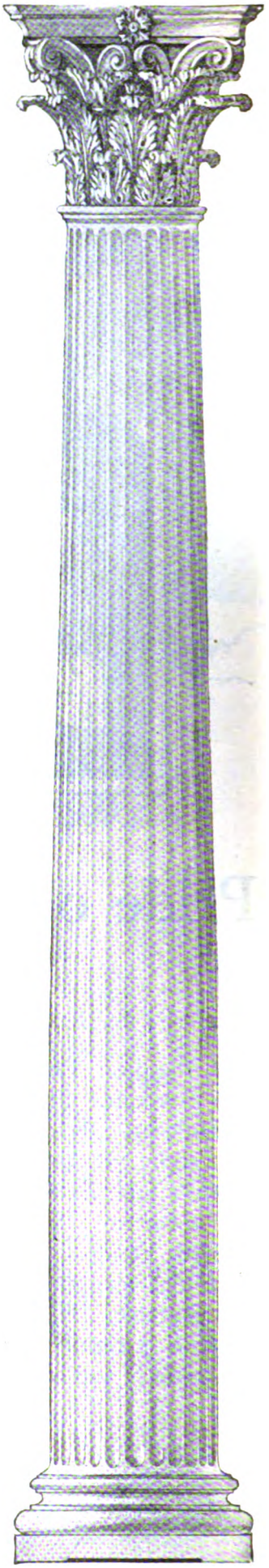
Pondosa Pine

The Pick o'the Pines

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This patented lock-joint *cannot come apart!*

It is interesting to note, in almost any city, the substantial character of the estates, homes and large buildings in which Koll Lock-Joint Columns are used.

The owners and builders of these costly estates and buildings have chosen Koll Columns, first, because they assure permanent and enduring beauty due to patented interlocking construction; second, because these better columns are skillfully designed and fashioned at every point, from entasis to base. They are the product of long years of experience and the highest type of craftsmanship.

Send for catalog D-47 of columns or catalog D-52 of Model Entrances. Hartmann-Sanders Co., 2170 Elston Avenue, Chicago, Ill.; Eastern offices and showroom: 6 East 39th Street, New York City.

HARTMANN-SANDERS

Pergolas
Rose Arbors
Garden
Equipment



Colonial
Entrances
Koll
Columns

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In This $7000 Frame House Crittall Casements Give Rare Beauty

In building this small frame house for his father, W. H. Jacoby, contractor of Cleveland selected Crittall Standardized Casements not only for their beauty and distinction, but for their practicability in frame construction and the many advantages they provide in home windows.

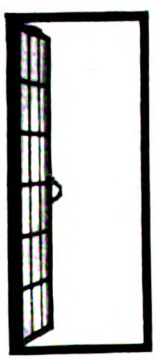
Mr. Jacoby informs us that the total cost of this house was $7000 exclusive of the grounds. We publish this photograph as a good example of how builders, even in homes that are inexpensive are achieving an unmistakable distinction and charm with Crittall Casements that set these homes apart from the ordinary cheap, small house and immeasurably increase their attractiveness and sales appeal.

Here is a house in which pride of ownership is not diminished by the fact that it is not pretentious or costly. For quality and beauty are evident at a glance. It is evident too, how much Crittall Standardized Casements contribute to this pleasing effect both inside and out.

Crittall Standarized Casements, although not expensive, are of the same fine quality and workmanship as the famous Crittall custom-built casements. They are made in both inward and outward opening types.

Illustrated catalog showing types and sizes will be sent upon request

CRITTALL
Standardized Casements



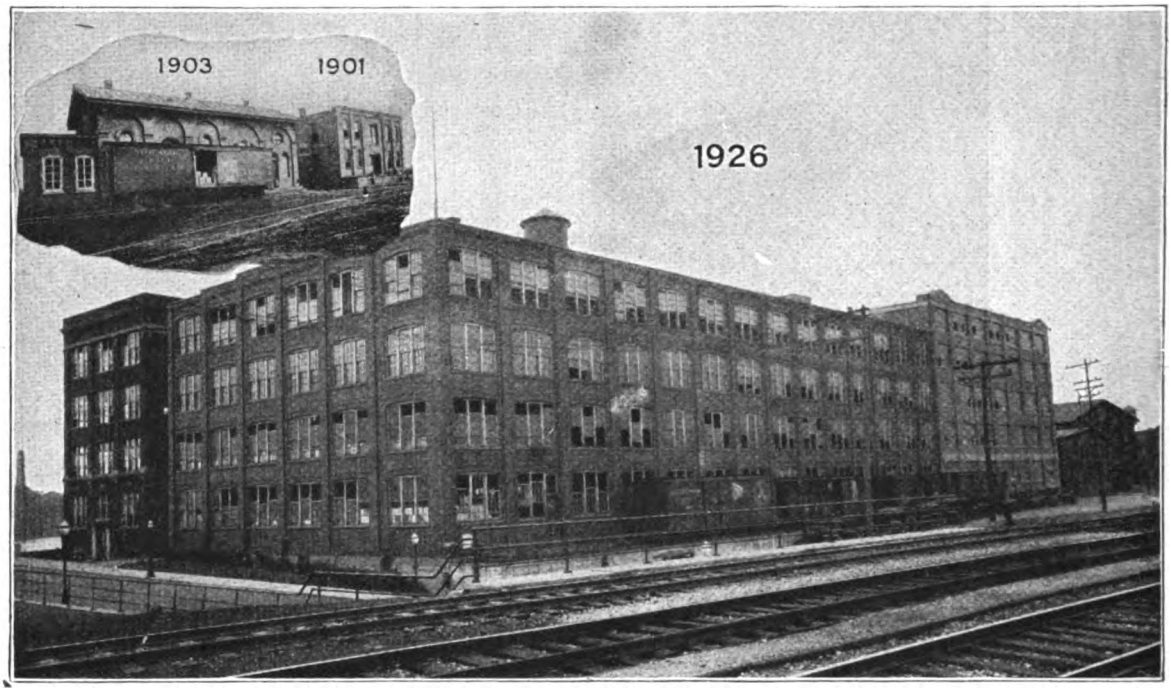
CRITTALL CASEMENT WINDOW COMPANY
Manufacturers
10957 HEARN AVENUE, DETROIT, MICHIGAN

Also Makers of Crittall Steel Casement Windows built to the architect's sizes, designs and specifications

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25th ANNIVERSARY

OCTOBER 12, 1926



For 25 Years The National Line

of Builders' Hardware has been manufactured and sold direct to the Dealer.

This shortened route to consumer assures the Contractor and Builder a Quality Line at a reasonable price with Service that pleases.

The reception accorded our Line and Policies during the last 25 years shall be our incentive during the second quarter-century lap of our existence to exert every effort in making them worthy of continued support.

For quick service, tell your Merchant to order from the National

NATIONAL MANUFACTURING COMPANY
STERLING ILLINOIS

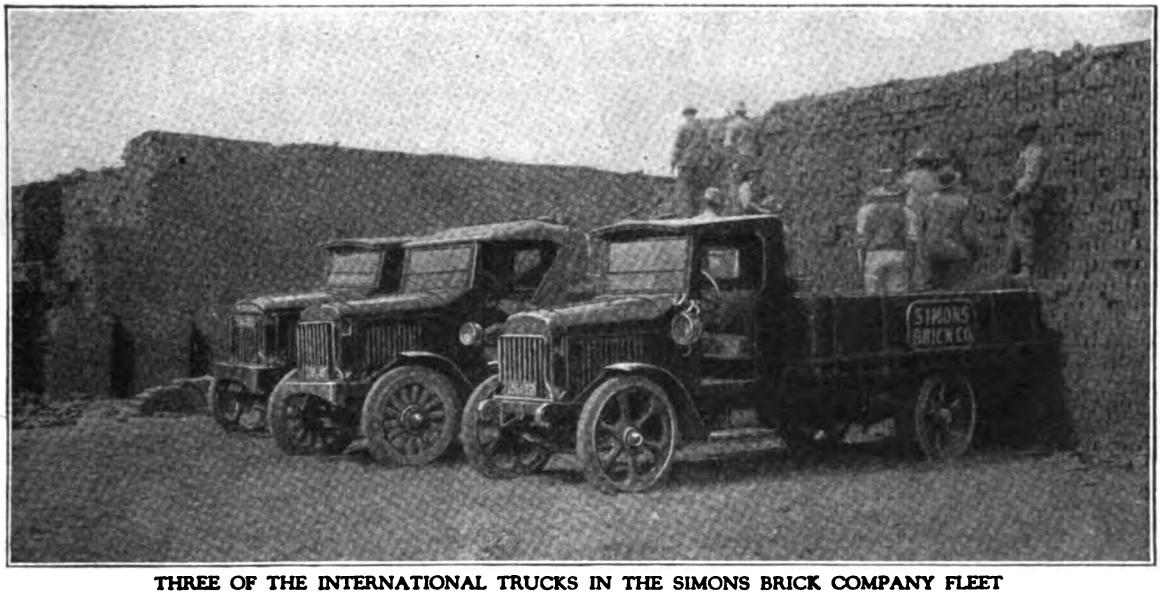
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International Tower at the Fort Wayne plant, one of the largest and most perfectly equipped factories in the automotive industry

International Trucks & Service

THE builder who is interested in good motor truck service will be interested by the letter below, from the Simons Brick Company of Los Angeles, one of the leading building material concerns on the West Coast. They own 26 Internationals and are *standardizing* on them.



THREE OF THE INTERNATIONAL TRUCKS IN THE SIMONS BRICK COMPANY FLEET

INTERNATIONAL HARVESTER TRUCKS will be *profitable* trucks for *your* hauling. The full line ranges from the Special Delivery and the Speed Truck to the 5-ton Heavy-Duty unit. Served by the world's largest company-owned truck service organization—120 branches in the United States.

Drop us a line for specific information.

INTERNATIONAL HARVESTER COMPANY
606 So. Michigan Ave. of America (Incorporated) Chicago, Ill.

International Trucks & Service

Simons Brick Company (Inc.)

MANUFACTURERS OF
BUILDING AND FACE BRICK, ROOFING TILE AND HOLLOW TILE

LOCATION OF FACTORIES
LOS ANGELES Boyle Ave. Bet. 7th and 8th Sts.
PASADENA Cor. Broadway & Cypress
ORANGE On Santa Fe R'y
MONTEBELLO On L. A. & S. L. R. R.
SANTA MONICA On Pacific Electric R'y
EL CENTRO On Southern Pacific R'y

OFFICE, 1255 WEST THIRD STREET

OFFICE TELEPHONE: Main 1255
BOYLE YARD Prospect 8060 Main 1255
1255 WEST STATE S. P. R. R. Depot Co. Main 1255
PASADENA Colorado 201
MONTEBELLO YARD Boyle 2071

Los Angeles, Cal. April 17 1926

International Harvester Co.,
Los Angeles, Calif.

Gentlemen:

We are now using 26 International Motor Trucks in our business which is two-thirds or more of all the trucks we ordinarily use. We are gradually replacing our other make trucks with Internationals.

There are a number of good reasons for our standardizing on International transportation equipment, but the main one is the excellent service that these trucks have always given us. Our Internationals are always on the job.

We also like the attention you give your trucks after they are in use. The courtesy extended by the members of your organization in our past dealings is very much appreciated.

Yours truly,

SIMONS BRICK COMPANY (Inc.)

By Walter F. McLaren
Superintendent

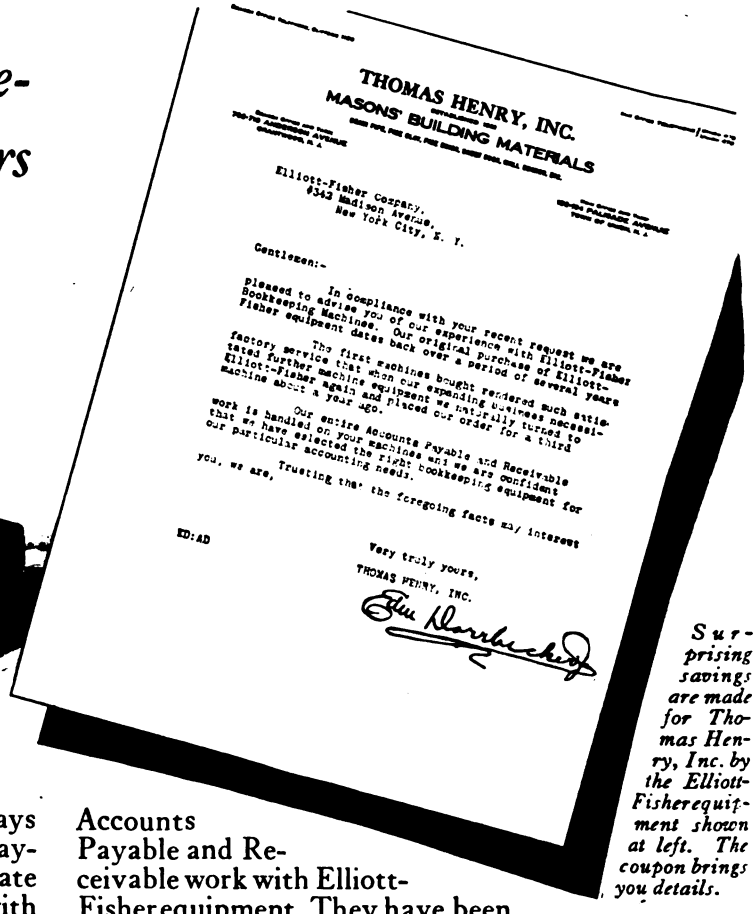
MEMBER OF THE CHAMBER BRICK MANUFACTURERS ASSOCIATION OF AMERICA

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What delays your statements?

Current, proved statements for your customers are easy to obtain





THOMAS HENRY, INC.
MASONS' BUILDING MATERIALS

Elliott-Fisher Company,
342 Madison Avenue,
New York City, N. Y.

Gentlemen:-

In compliance with your recent request we are pleased to advise you of our experience with Elliott-Fisher Bookkeeping Machines. Our original purchase of Elliott-Fisher equipment dates back over a period of several years.

The first machines brought rendered such satisfactory service that when our expanding business necessitated further machine equipment we naturally turned to Elliott-Fisher again and placed our order for a third machine about a year ago.

Our entire Accounts Payable and Receivable work is handled on your machines and we are confident that we have selected the right bookkeeping equipment for our particular accounting needs.

Trusting that the foregoing facts may interest you, we are,

ED:AD

Very truly yours,
THOMAS HENRY, INC.

Surprising savings are made for Thomas Henry, Inc. by the Elliott-Fisher equipment shown at left. The coupon brings you details.

YOU no longer need to face exasperating delays in keeping your Accounts Receivable and Payable records up to the minute. You can eliminate customers' complaints and vendors' arguments with Elliott-Fisher speed and accuracy.

Elliott-Fisher furnishes complete and instant accounting records. It makes *one* job of many jobs—posts all details, and proves every figure on all related records at *one* time.

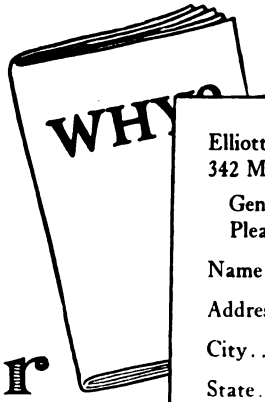
Each customer's statement is clearly itemized. He knows what each charge is for. Every remittance advice states just what *you* are paying for. The statements are always ready when they are due, and you will never skip a discount period with Elliott-Fisher. When your records leave your office, *you* know they are *right*.

Thomas Henry, Inc., handle their entire Accounts Payable and Receivable work with Elliott-Fisher equipment. They have been so pleased with the results obtained that they have recently added another Elliott-Fisher to take care of their expanding business.

Without adding a single name to your payroll or making any change in your accounting system, you can secure Elliott-Fisher advantages in your own office. Let us send you our booklet "Why?" It contains data we feel sure will interest you greatly. The coupon below will bring you your copy without obligation.

NEW... *The Automatic Electric*

To the mechanically perfect Elliott-Fisher machine has been added—electricity. All the exclusive Elliott-Fisher features have been retained—power now does what hands once did. *Just Write*—Elliott-Fisher does the rest—*Just Right.*



Elliott-Fisher Company
342 Madison Avenue, New York City

Gentlemen:
Please send me a copy of your booklet "Why?"

Name.....

Address.....

City.....

State.....



Elliott-Fisher

AUTOMATIC ELECTRIC

ACCOUNTING MACHINES *with the* FLAT WRITING SURFACE

Digitized by Google

now you can be sure about INSULATION

HESITATE no longer—*the insulation problem has been solved.* Solved through the practical conversion of natural WOOD into perfected manufactured lumber.

MASONITE is the ideal all wood product for sheathing, plaster base, interior finish and sound-deadener in floors and ceilings. It provides unexcelled insulation wherever used. It adds to the permanent strength and value of any building structure, new or old.

Masonite
MANUFACTURED LUMBER FOR
STRUCTURAL INSULATION

Architects and contractors recommend MASONITE for structural permanence, for insulation comfort and sound-deadening effect. That's because it lives up to what we claim for it.

For MASONITE is wood—it is *all wood*, not a substitute. Sawmill waste (*not* sawdust) is blown from guns at terrific steam pressure. The resulting fibres, as perfect as the original wood and possessing all of their original strength, are then pressed into flat, rigid boards, 4 feet wide in 12-foot lengths.

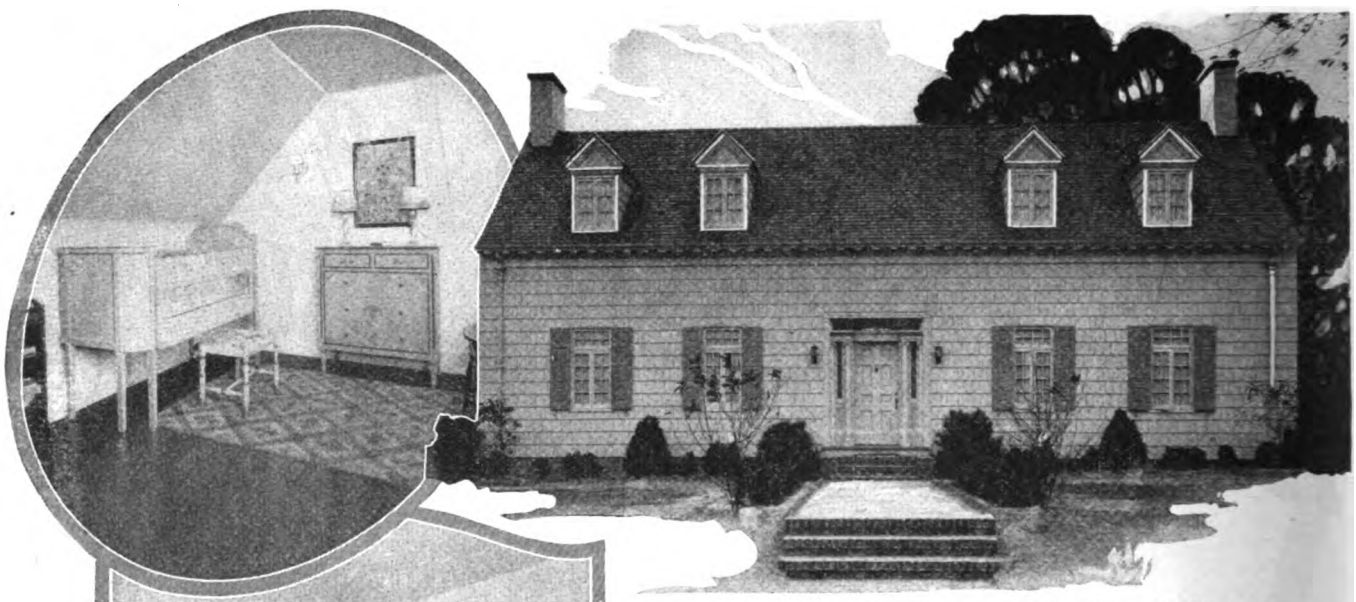
This new process revolutionizes all previously known wood conversion methods. The new product is named after W. H. Mason, who invented it. A conspicuous group of prominent lumbermen are interested in its manufacture.

Send for sample and details; how MASONITE is made, its many profitable uses, the men behind it, and how this remarkable product can be obtained.

MASON FIBRE COMPANY
Dept. 210 111 W. Washington St.
CHICAGO, ILLINOIS

Send for samples and literature Today!

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A gift to France—this model American home. Its floors are of Maple, Beech and Birch

A model American home for France—floored with Maple, Beech and Birch

Across the seas to France! This ten room model American house, with complete furnishings, has made the journey—a gift of good will from America.

FOR the floors of this interesting Colonial style structure, three popular woods were chosen — as representing the utmost in American flooring materials — Maple, Beech and Birch.

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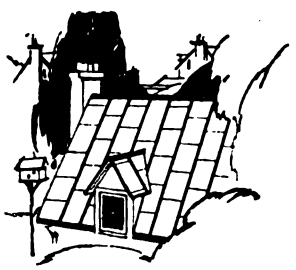
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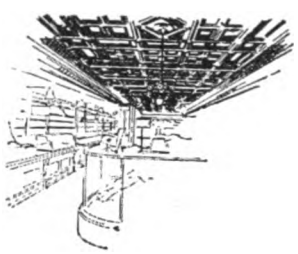
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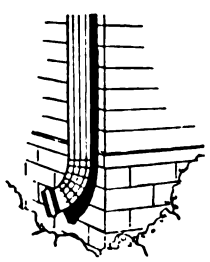
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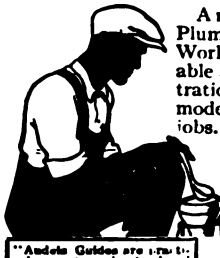
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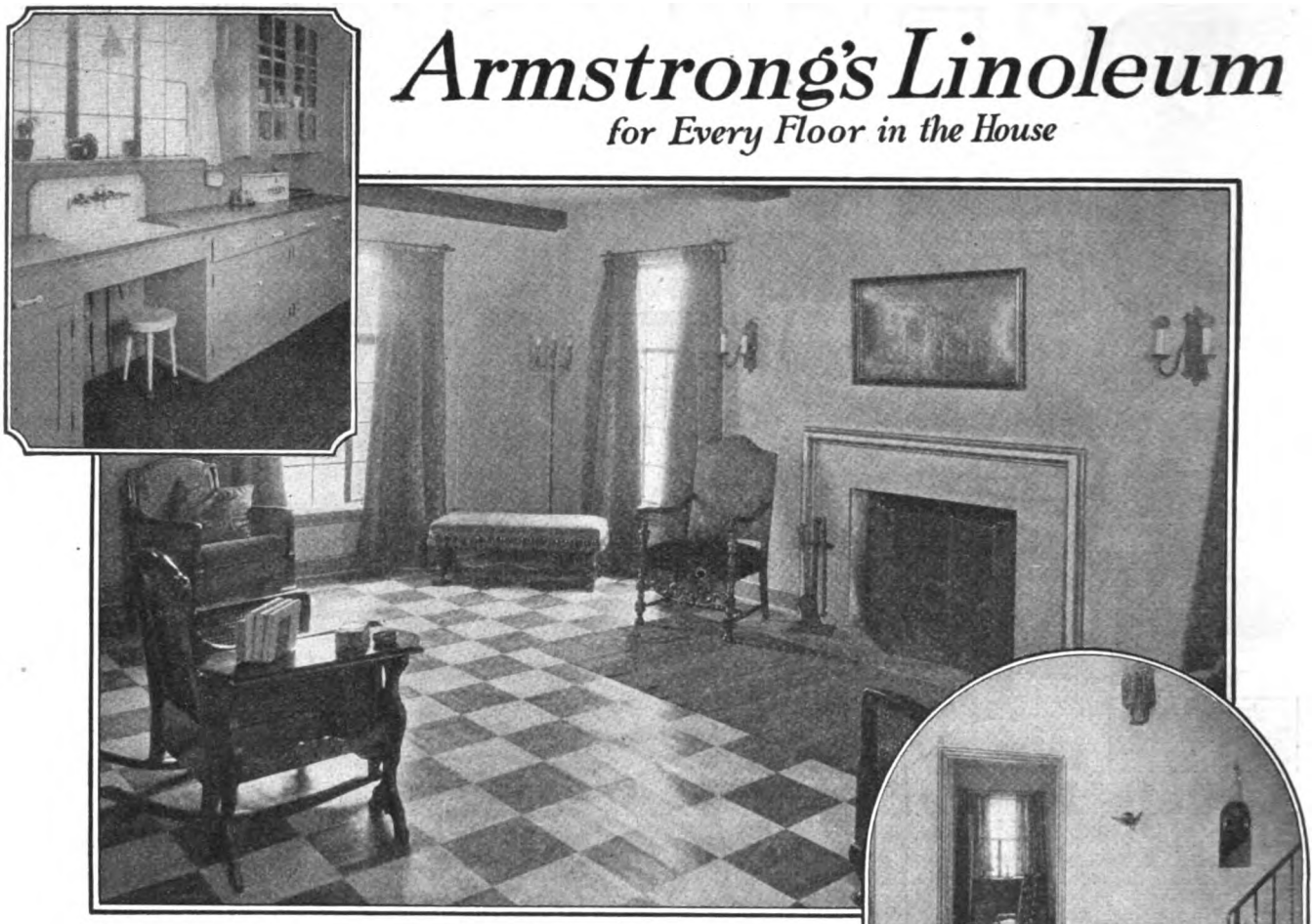
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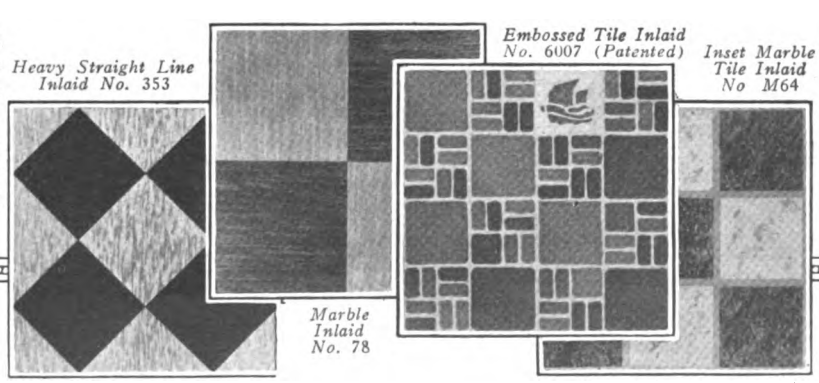
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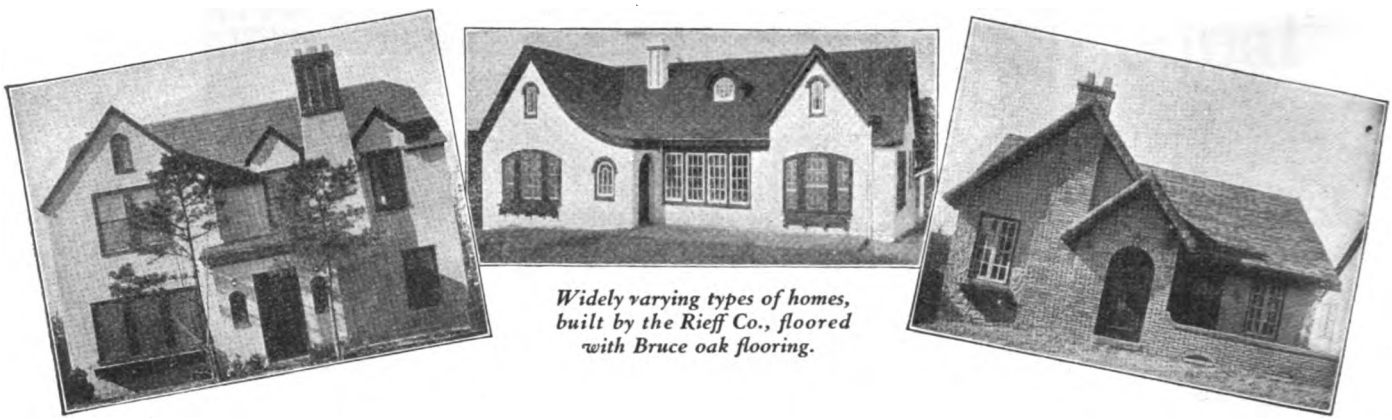
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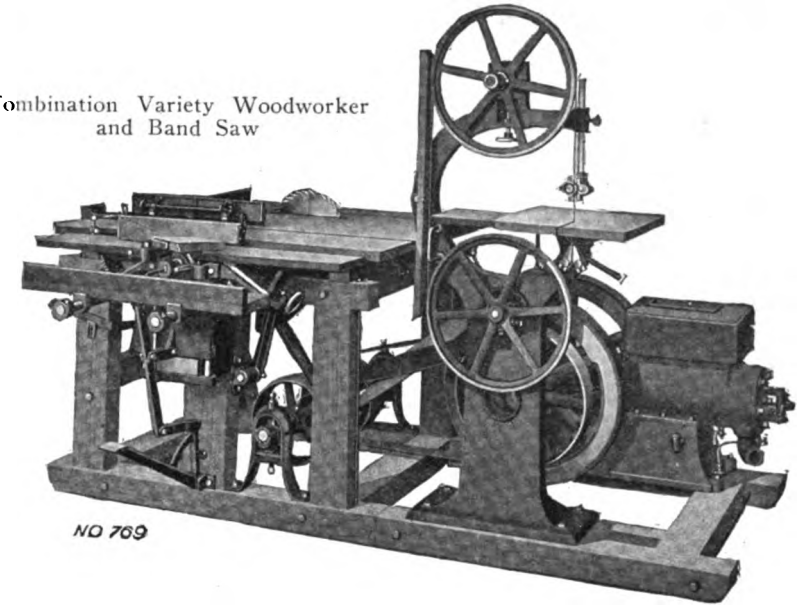
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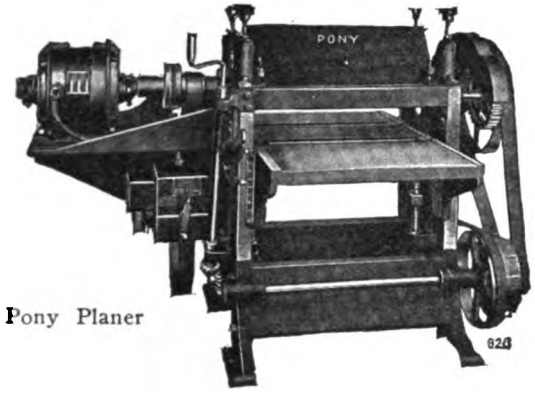
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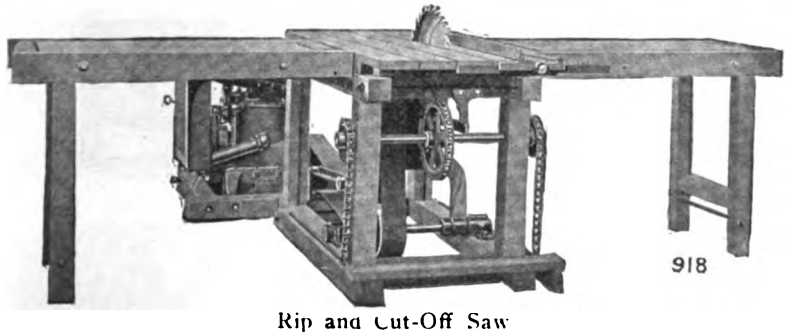
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These machines are cutting costs for hundreds of contractors



Pony Planer

Let these machines help you to win more of your bids. Take this woodworker and band saw, for example. It is already cutting costs for hundreds of contractors. You can figure low, yet gain greater profits. Note what an amazing difference between costly hand-sawing or expensive delays waiting for some shop to turn out a special job and this quick, easy, always available, portable Variety Woodworker and Band Saw. It cuts any kind of lumber. Four men can work at it at once. It brings a complete woodworking shop right to the job. *Convenience counts!* This one machine may be used as a rip, cut-off or 20-inch scroll saw, as a dado, gaining, grooving, rabbeting, tenoning or boring machine, as a jointer or planer, matcher, molder, or sander, and as a hollow chisel mortiser.



Rip and Cut-Off Saw

Send the coupon for Bulletin No. 82, which describes this Woodworker with Band Saw, and the rip and cut-off Saw and Planer illustrated on this page, together with many other cost-cutting machines.

Clip and mail today

AMERICAN
SAW MILL MACHINERY CO.

MAKERS OF WOODWORKING AND SAW MILL MACHINERY

61 MAIN STREET HACKETTSTOWN, N. J.

The American Saw Mill Machinery Co.,
61 Main Street, Hackettstown, N. J.

Gentlemen:

I am interested in the machinery described in your Bulletin No. 82. Please mail me a copy at once.

Name .....

Address .....

City ..... State.....

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The Bed *of the Present* —*and* the Future



SPACIOUSNESS of rooms without sacrifice of adequate sleeping accommodations is won by the use of Murphy In-a-Dor Beds. This roominess on a comparatively small area allows families to live economically on a high plane in convenient locations of high land value.

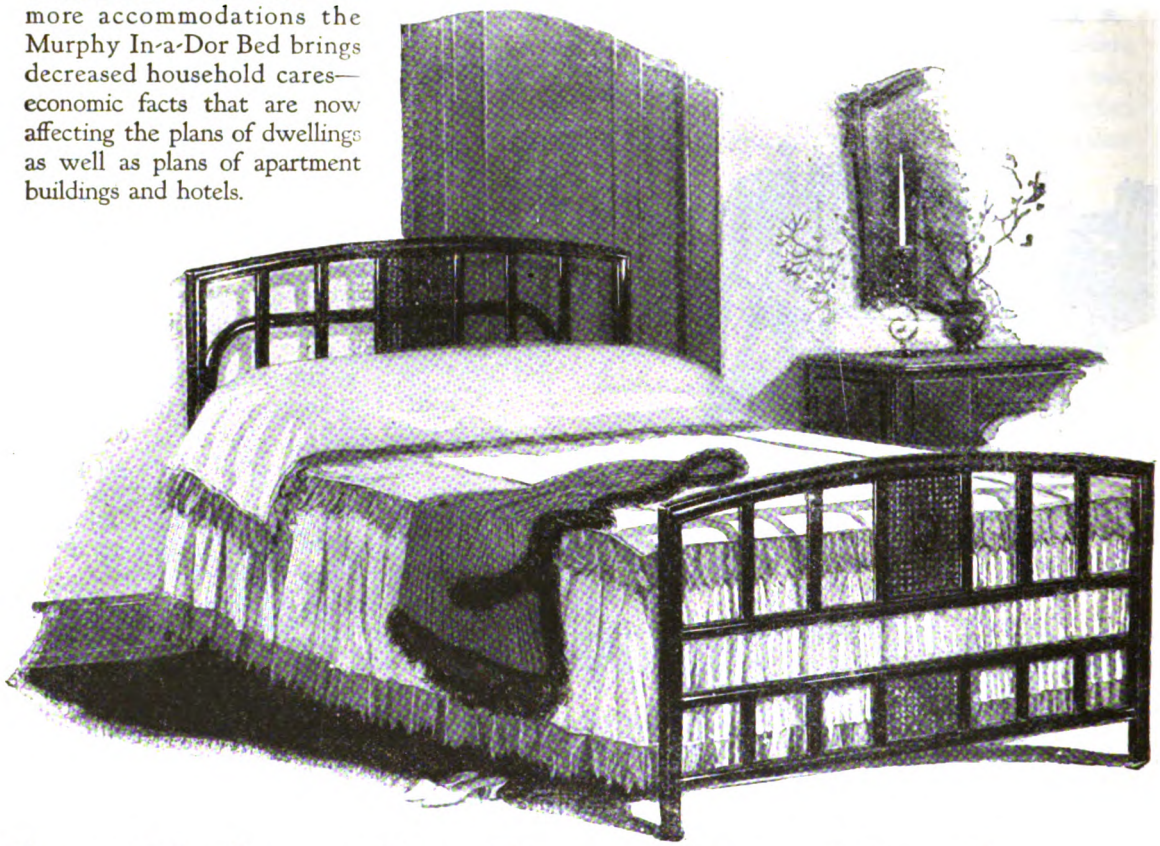
With increased roominess and more accommodations the Murphy In-a-Dor Bed brings decreased household cares—economic facts that are now affecting the plans of dwellings as well as plans of apartment buildings and hotels.

In the future, installations of Murphy In-a-Dor Beds, in both multiple and single dwellings, will surpass greatly the widespread use so evident at present.

A Murphy In-a-Dor Bed—designed and finished to harmonize with the furnishings of a room—may be standing behind any one of the standard doors leading from living room, sun parlor, play room or den.

The Murphy is the only full sized bed that swings through a standard three foot door—swings independent of the door on a fixed arc. A principle of balance keeps the bed in easy control while it is lowered to solid rest upon the floor.

Architects, builders, owners—you are urged to call upon Murphy Co-operative Service in your planning and to write now for descriptive circulars.



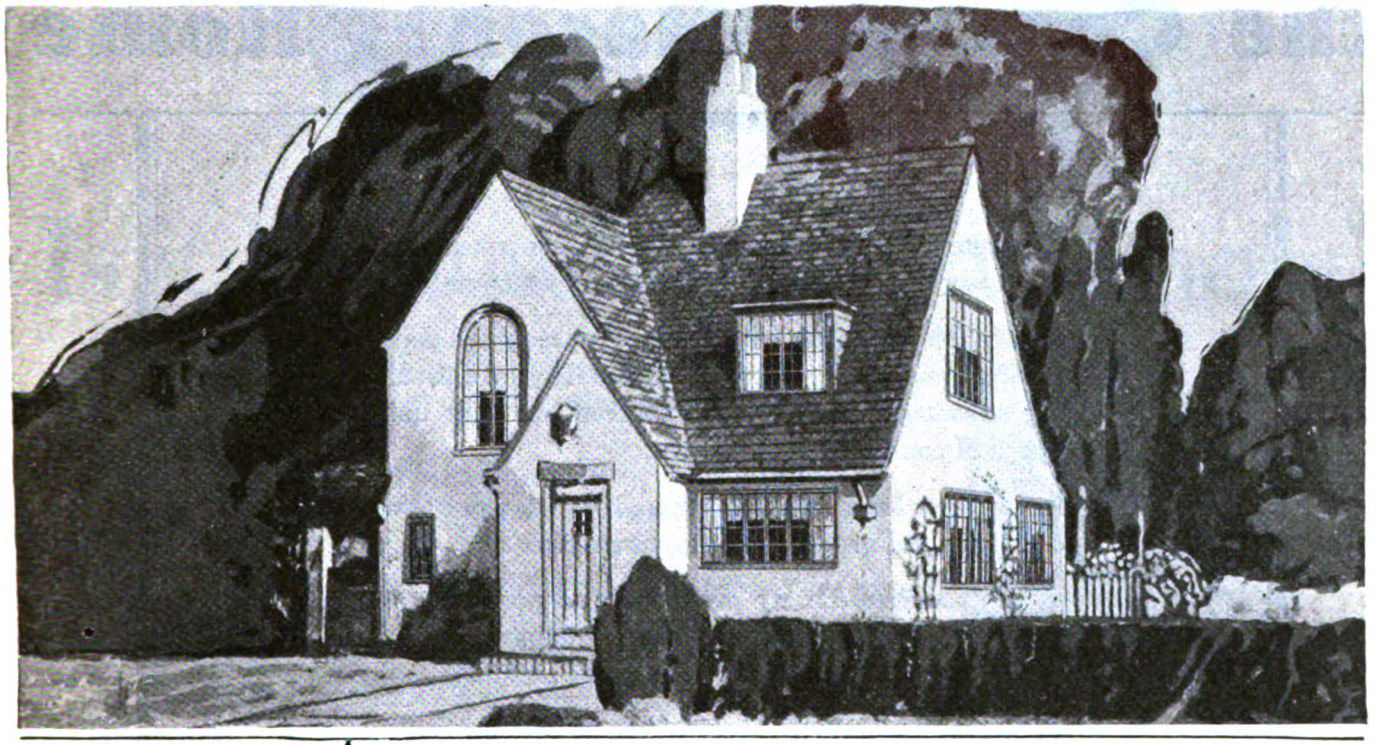
The Murphy In-a-Dor Bed

MURPHY DOOR BED COMPANY

New York City	19 W. 44th St.	Detroit, Mich.	7th Floor, Kresge Bldg.
Chicago, Ill.	22 W. Monroe St.	Birmingham, Ala.	513 N. 21st St.
Atlanta, Ga.	33 Luckie St.	Cleveland, O.	1140-42 Hanna Bldg.
Seattle, Wash.	Terminal Sales Bldg.	Kansas City, Mo.	1114 Grand Ave.
San Francisco, Calif.	Crocker Bldg.	Dallas, Tex.	1919 Pacific Ave.
Los Angeles, Calif.	1807 S. Main St.	El Paso, Tex.	Neff-Stiles Bldg.
Denver Colo.	1534 Blake St.	Houston, Tex.	2301 Main, St.
St. Petersburg, Fla.	225 Second Ave. S.	New Orleans, La.	319 Dryades St.
Miami, Fla.	234 Columbia Bldg.	Ottawa, Canada	205 O'Connor St.
Tampa, Fla.	220 Warner Bldg.	Montreal,	698 St. Catherine St., West.
St. Louis, Mo.	315 N. 10th St.		

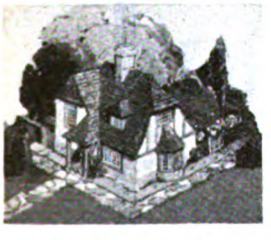
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Home Owners' Service Institute Chooses Fenestra



One of the model homes designed by the Home Owners' Service Institute.





Other Fenestra-equipped homes designed by the Institute.

FOR these 360 "better built" homes—36 of them model houses—Fenestra Steel Casements have been selected as standard equipment—the one steel casement that met the window requirements of these beautiful homes.

This nation-wide movement for better homes, fully described in leading home-building magazines, is now under way. Some of these Fenestra-equipped homes have already been completed, many others are under construction, and all of them will be ready during 1926.

Model homes must be modern—that's why you'll find Fenestra Steel Casements in "better built" homes everywhere—homes that sell quickly and profitably.

There is a Fenestra dealer near you who is prepared to speed your building program by giving you prompt deliveries of Fenestra Casements along with your other building materials.

DETROIT STEEL PRODUCTS COMPANY
2252 East Grand Boulevard, Detroit, Mich.
Factories at Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

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Our national fire loss is at the rate of $16 every second

Time's Hand Rests Lightly on the Concrete Masonry Home

Concrete building units such as hollow concrete tile put the masonry house within the reach of everyone.

Reasonable first cost, freedom from upkeep and depreciation, great stability, maximum fire safety are outstanding advantages secured with concrete masonry units. Speed of construction is another.

In whatever form concrete is used, it stands alone as the one structural material that grows stronger with age.

While concrete tile are particularly adaptable to residence construction, they are equally suitable for schools, apartments, industrial, and many other buildings.

Concrete masonry is the best backing for portland cement stucco. With this exterior finish, you have within your reach almost endless variety of tone and texture.

And a concrete first floor is one of the most important safeguards against fire. 70 per cent of all residence fires start in the cellar. Concrete first floors won't let them escape from their place of origin. For concrete won't burn.

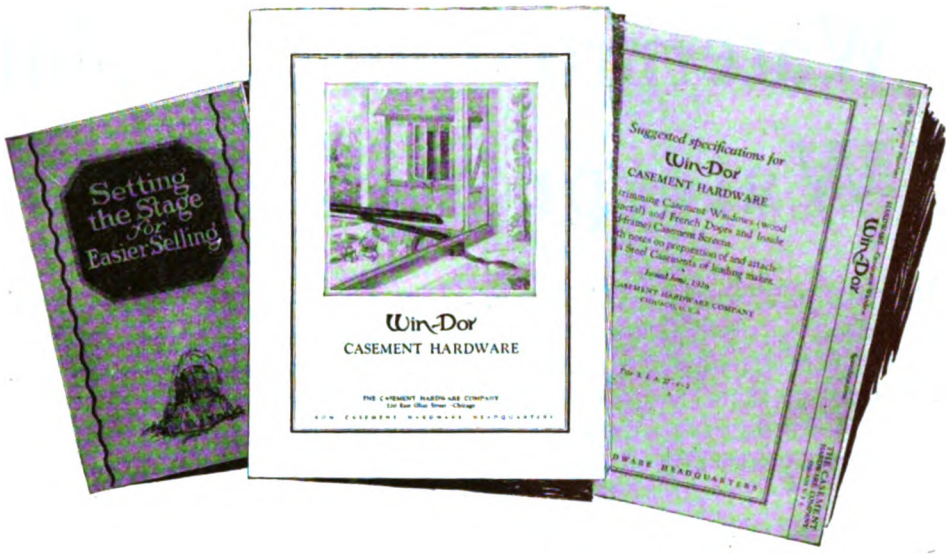
Ask for your free copy of
"A Book of Beautiful Homes"

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Denver	Lincoln, Nebr.	Oklahoma City	Salt Lake City
Birmingham	Des Moines	Los Angeles	Parkersburg	San Francisco
Boston	Detroit	Milwaukee	Philadelphia	Seattle
Chicago	Indianapolis	Minneapolis	Pittsburgh	St. Louis
Columbus	Jacksonville	Nashville	Portland, Oreg.	Vancouver, B. C.
Dallas	Kansas City	New Orleans	Richmond, Va.	Washington, D. C.
		New York		

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Is it because you don't know?

RECENTLY we made an investigation among builders in California—not a selling campaign, merely a series of calls.

Hardly any of them knew much about Win-Dor to start with, but *almost every one* was enthusiastic after he had heard our story.

The chances are very great that you'd be enthusiastic, too, if you knew what Win-Dor can do towards increasing your sales and lowering your costs.

Is it because you don't know about it that you're not using Win-Dor?

We believe we've got a proposition that you can use to great advantage if you'll take a few minutes to look into it.

Drop this coupon in the mail and let us send you our catalog, specification data on wood and metal casements and our popular new book "Setting the Stage for Easier Selling." The last is a mighty interesting selling idea, written up by a practical and very successful builder.

Send for these booklets, look them over, and if you're not convinced that you can use Win-Dor to advantage on most of your buildings, you'll be different from 90% of the builders we've talked to.



Here are some typical responses made by builders

(Had been using another make.) "Am glad to have seen your samples and consider them superior to what we have been using. The prices are right. We have your catalog and will certainly use Win-Dor in the future."

(Have been using two other makes.) "Your samples are very interesting and I have enjoyed the demonstration. We should have known about Win-Dor before but didn't bother to look into it. You can be sure, however, that Win-Dor will get our future business."

(Have been using Win-Dor Stays only.) "We have been using your Stays on all our steel sash but didn't know much about your Operators and Bolt-Fasts. In the future we shall use both your No. 7 Surface Operators and your No. 24 B Flush Operator for all our casement work. We wish we had known sooner that your line was so reasonable in price."

Win-Dor
CASEMENT HARDWARE

THE CASEMENT HARDWARE CO.
402-B North Wood St., Chicago

CASEMENT HARDWARE HEADQUARTERS

CASEMENT HARDWARE COMPANY
402-B North Wood St., Chicago

Gentlemen:

Please send me a copy of "Setting the Stage for Easier Selling" together with a copy of your specification data and your catalog.

Name_____

Address_____

City_____ State_____

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100% Waterproofing Certainty *with* 42% Waterproofing Economy

Results obtained in America's outstanding buildings—results obtained in America's greatest concreting operations, including world famous sewerage disposal plants and mammoth reservoirs, all demonstrate this one basic fact. Truscon Waterproofing Paste Concentrated makes concrete 100% waterproof not merely for a few years but for all time to come. Truscon Waterproofing Paste Concentrated provides the one certain method of permanently and effectively waterproofing concrete—but more than this—

TRUSCON *Waterproofing Paste* CONCENTRATED

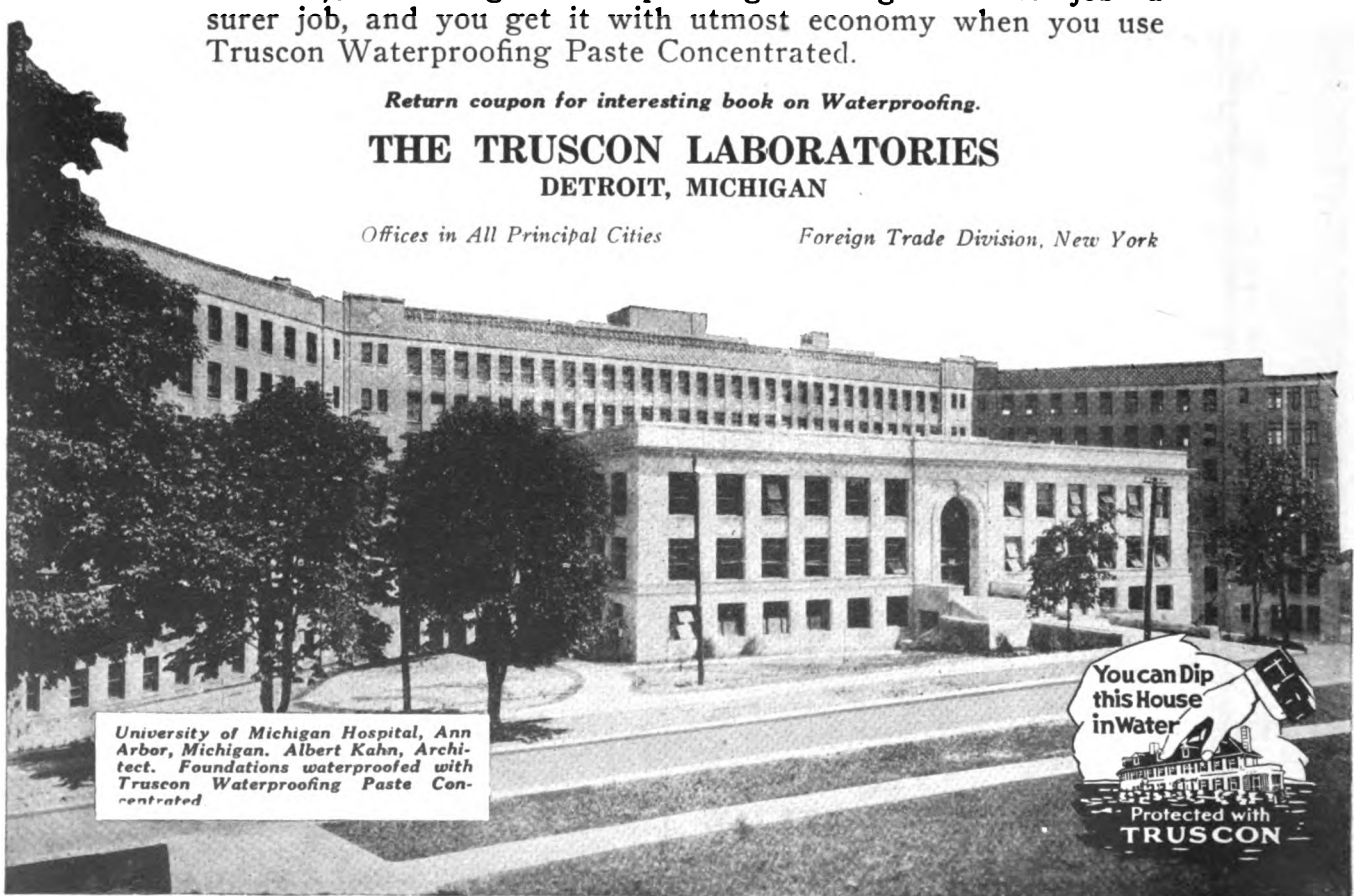
WATERPROOFS CONCRETE AT THE LOWEST COST PER CU. YD.

Only in Truscon Waterproofing Paste Concentrated do you get waterproofing material in such concentrated form as to enable you to waterproof effectively and permanently a cu. yd. of concrete with 42% less integral waterproofing. You get a better job—a surer job, and you get it with utmost economy when you use Truscon Waterproofing Paste Concentrated.

Return coupon for interesting book on Waterproofing.

THE TRUSCON LABORATORIES
DETROIT, MICHIGAN

Offices in All Principal Cities *Foreign Trade Division, New York*

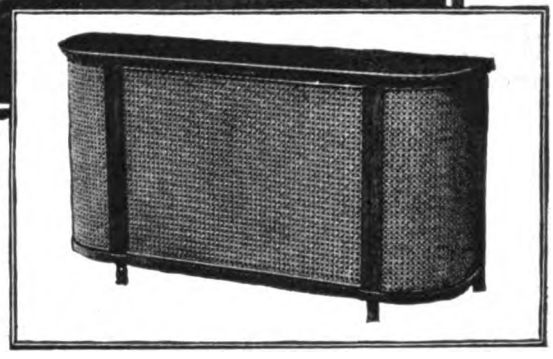


University of Michigan Hospital, Ann Arbor, Michigan. Albert Kahn, Architect. Foundations waterproofed with Truscon Waterproofing Paste Concentrated

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A recent installation in "Number 32" West Eighty Second Street, New York City.



The Raleigh Model with mahogany finish and Steelcane Grilles.

IN a great many of the modern apartment houses, hotels and private dwellings you will find Tuttle & Bailey Radiator Cabinets standard equipment.

The advantages of these cabinets from a decorative and sanitary standpoint have appealed strongly to progressive builders and to home owners.

Eighty years experience in the heating field enables us to offer our *all-steel* Radiator Cabinets with assurance that they are designed for utmost heating efficiency. Warm *moist* air is directed *into* the room, not *up* to soil the wall. Furthermore, the cabinets provide additional usable space—window-seats or shelves.

People in your community will want these cabinets. The comparatively low prices are an attractive feature. You should have full data regarding them. Use the coupon below. It will bring you literature and specifications.

TUTTLE & BAILEY MFG CO.
441 LEXINGTON AVENUE
NEW YORK CITY

Bldg. Age

TUTTLE & BAILEY MFG. CO.
441 Lexington Ave., New York City

Gentlemen:
Kindly send me further information regarding Tuttle & Bailey All-Steel Radiator Cabinets.

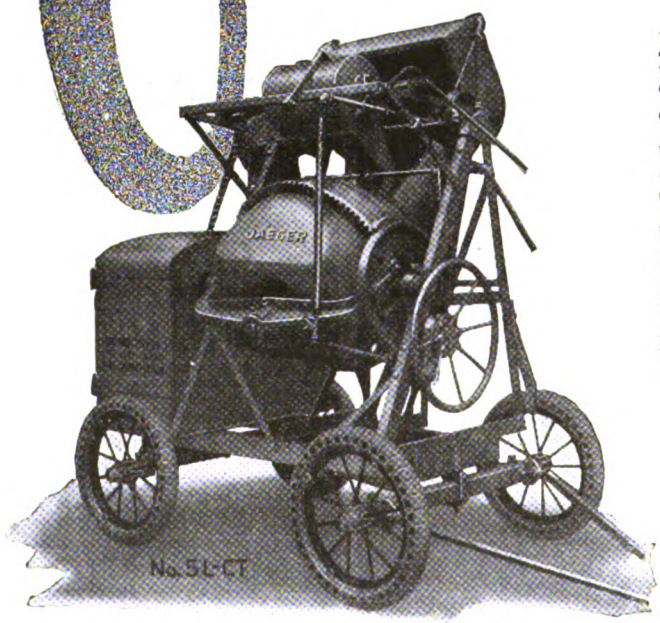
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Value!

WHEN you think of real value in concrete mixers you are thinking of Jaeger. Here, indeed, is *the last word in low cost concrete production and truly efficient performance.* With the dependable Jaeger on the job you can figure on known costs per cubic yard—and balance estimates with actual dollars expended. Jaeger Mixers are unfailingly reliable and produce uniformly mixed, perfect concrete under all conditions.



Four Features of Superior Design

Jaeger Mixers have four exclusive, patented features that make them definitely superior. These outstanding advantages are the Jaeger Tilting Drum with the flat spots inside—the Automatic Tip-Over Water Tank—the Gravity Discharge—and the Power Loader. These labor savers have earned for Jaeger the enviable record for "mix-a-minute" speed that is known all over the world.

One of our 36 Concrete Mixing Outfits is just suited to your requirements. Write today for our descriptive catalog.

Jaeger
A MIX A MINUTE

The Jaeger Machine Co., 216 Dublin Ave., Columbus, Ohio

JAEGER

The Original Jaeger Tilting Drum Mixer

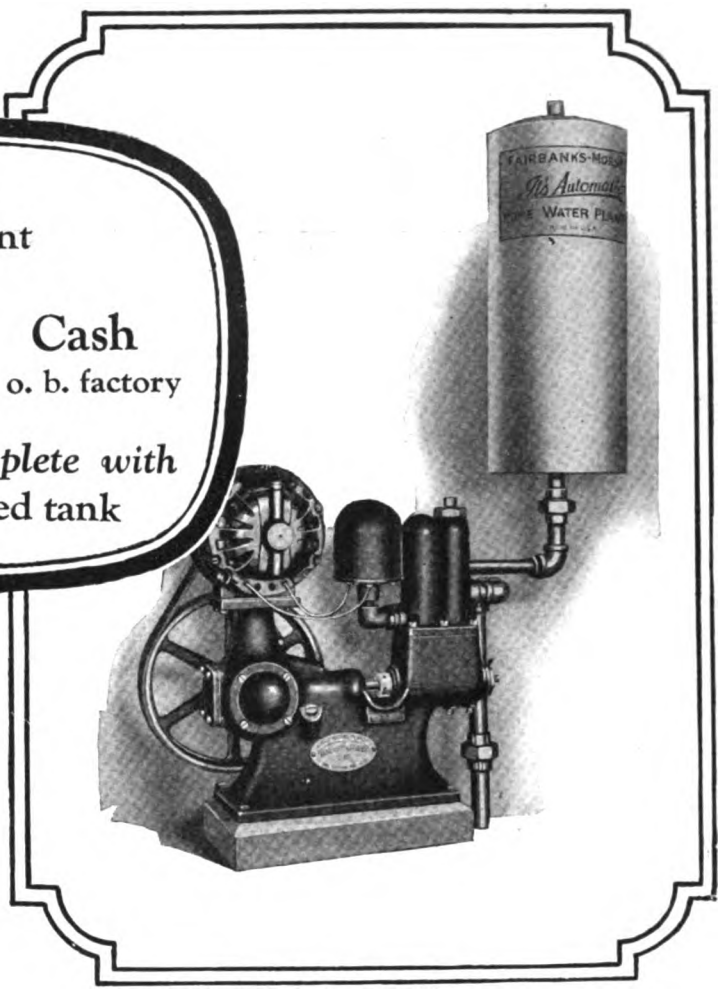
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A Leader in a Line of Leaders

A 200
gallon plant

$85 Cash
f. o. b. factory

Complete with
4-gallon galvanized tank



Big capacity

at small capacity price

A 200-gallon per hour plant for only $85 cash, f.o.b. factory! Here is F-M quality in a big capacity plant—at a price usually placed on a unit of much smaller capacity.

The plant is equipped with the standard Fairbanks-Morse 200-gallon automatic electric pump, complete with two-pole switch and four-gallon tank. In high grade finish, speed, and capacity the pump is identical with pumps furnished with the Fairbanks-Morse self-contained tank combinations.

The four-gallon pneumatic tank is of special design; tested to 125 pounds working pressure; heavily galvanized inside and out. Note that strain on the pump is avoided by locating the tank in the discharge line, in such a manner that the weight of the tank and water is not supported by the pump itself.

This plant is typical of other values in the complete line of Fairbanks-Morse water systems ranging in size from 120 to 5000 gallons per hour, either electrically or engine driven—every system backed by the strong Fairbanks-Morse guaranty.

Let us send you literature on the above plant and other Fairbanks-Morse Home Water Plants of interest to architects, builders and home owners. Mail the coupon.

FAIRBANKS, MORSE & CO., Chicago

FAIRBANKS-MORSE
HOME WATER PLANTS

Fairbanks-Morse Products

"Every Line a Leader"

Pin this to your letterhead.

FAIRBANKS, MORSE & CO.,
Dept. N-10, 900 South Wabash Avenue, Chicago, Ill.
Send a free copy of your 32-page Home Water Service Book.

Name .....
Address .....
City ..... State .....

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NO WONDER ARCHITECTS SPECIFY

SISALKRAFT

Java Rope Sisal Fibre — No. 1 Kraft Paper

The 20th Century Building Paper

YES, IT'S TOUGH. **2** Layers of Java Rope make it so.

YES, IT'S WATERPROOF. **2** Layers of High Grade Asphaltum positively waterproof.

YES, IT'S CLEAN. **2** Layers of No. 1 Kraft Paper bind it, one on each side making it clean enough to print on.

TOTAL **6** PLY Clean, Tough, Waterproof Reenforced Building Paper.

Stocked in rolls 36, 40, 48, 54, 60 inches wide and containing 500, 900, 1000, 1350, 1500 Sq. Ft. Respectively

USED FOR—

Sheathing under Stucco, brick veneer, shingles, Clapboards, under floors prevents moisture or dust from passing through.

In construction work can be used for covering temporary buildings, partitions, protection of finished work and for covering stock piles.

Weight Approximately 45 lbs. per 100 Sq. Yds.

American Reenforced Paper Company

ATTLEBORO, MASS.

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Discovered real tire service by standardizing on Kellys

CHARLEROI LUMBER COMPANY
Contractors and Builders
WALTER BYERLY, MGR.
CHARLEROI, PA.

March 27th, 1926.

Kelly-Springfield Tire Co.,
250 West 57th St.,
New York, N.Y.

Gentlemen:

We have been using solid truck tires for ten to twelve years. For a number of years we tried first one make and then another, trying to find a tire that would give consistent good service. We got some pretty good tires but it was not until we standardized on Kelly-Springfield Tires exclusively that we discovered what real tire service could be.

We are using Kelly-Springfield Tires on our entire fleet at the present time and getting from twelve to eighteen months steady hard service from them, which we consider all that could be expected.

It is always a pleasure to say a good word for a good product and we can sincerely say that good word for Kelly-Springfield Tires.

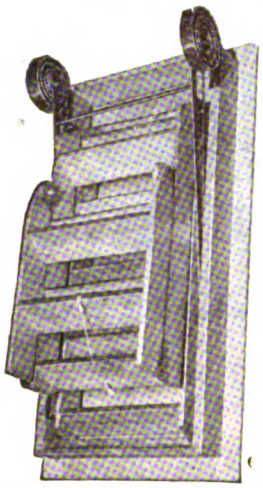
Yours truly,
Charleroi Lumber Co.,
Glenn R. Lyon.
Treas.

KELLY-SPRINGFIELD TIRES

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SAVE SPACE AND MONEY.

THE MARSCHKE COLLAPSIBLE STAIR
folded up ready for shipment



With jambs, casings and panel put on at the factory. When installing, no bolts or screws are needed—a few nails driven where directed per instructions and the stair is ready for use. Shipping weight, 120 lbs. **Price, $45.00.**



TO ROOF OR ATTIC

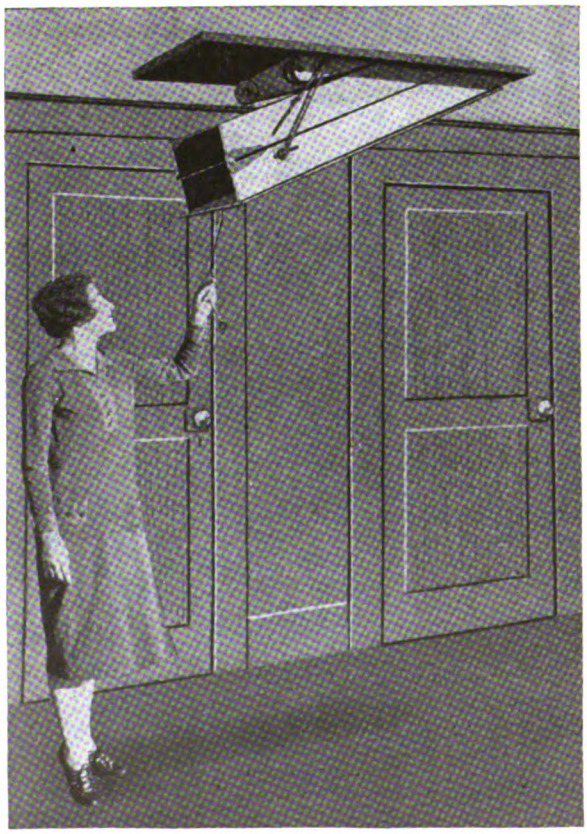
Those rooms in the attic can be readily made accessible with the Marschke Collapsible Stair. Easily operated—a slight pull on the cord opens the stair and unfolds it ready for use. It will operate in a small hallway or closet. Ceiling panel only 26x56 in.

THE MARSCHKE FOLDING LADDER
folded up ready for shipment



Complete with a box of specially designed hardware and full instructions for installing. Shipping weight, 40 lbs. **Price, $25.00.**

ATTRACTIVE CEILING PANEL



Note how easy it works

Simplicity of design and volume of production have made possible the low price at which we are able to offer these stairs.

Our stairs can be opened and closed from above as well as from below and do not obstruct the attic floor while closed as they fold over their own panel. We make them to fit any ceiling height.

When ordering give ceiling height
Express brings it to your door.
Above Prices F. O. B. Factory, St. Paul

No cables, pulleys, shafts or drums;
No bolts or screws for installation.
Not only attics can we reach,
But roofs as well for recreation.

Write our nearest office

THE MARSCHKE CO.

1413 Pioneer Bldg. St. Paul, Minn.

Chicago, 20 E. Jackson Boulevard
New York, 1560 Broadway—St. Paul, 1413 Pioneer Bldg.
Los Angeles, 2320 Oceanview

The Marschke Co., BA-10
1413 Pioneer Bldg., St. Paul, Minn.

Please send full particulars and prices on the Marschke Collapsible Stair and Folding Ladder.

Name .....

Address .....

☐ Architect ☐ Contractor ☐ Dealer

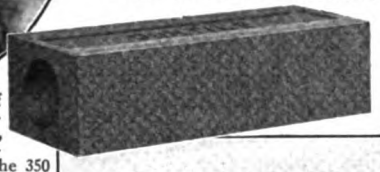
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The Manufacturing Independence I always longed for has now been realized—*thanks to Duntile*

—H.W. Sewall of Benton Harbor, Mich



Above is a likeness of Mr. Sewall, of the National Concrete Corp., Benton Harbor, Michigan—a man typical of the 350 others now manufacturing Duntile. The Brammell Heating & Supply Company building at the right is one of the many in Benton Harbor built of Duntile at a big saving. At present, the Benton Harbor Plant is shipping a carload of Duntile every day to Michigan City, Ind., for a new factory calling for 150,000 units. Mr. Sewall will gladly tell you how and why his Duntile Plant is so successful.





IN making the above statement, Mr. Sewall is but the spokesman for over 350 other men who, like himself, have found in the manufacture of Duntile the independence and prosperity and promising future every man longs for. It is a new declaration of independence, which is being realized every day by the men entering this profitable, assured business. Like Mr. Sewall, who was formerly connected with a Western bank, men from all walks in life are finding in the achievement of Duntile—the perfected all-purpose building unit—the basis for their success. Pioneering days have passed; today Duntile is nationally accepted on the strength of its performance. Today, as never before, the manufacture of this product offers its greatest opportunities to alert men.

You, Too, Can Share in the Earnings of the Nation-Wide Duntile Organization

When you learn of the big things being done by the more than 350 individually owned local Duntile Plants—the immense earnings and the enormous market, you will be eager to join this nation-wide, cooperative organization. Your investigation will reveal how a modest investment in a Duntile Plant quickly multiplies 10—15—20 times. You'll find that during 1926 Duntil will enter into 125 millions of dollars worth of new buildings—that each of these jobs nets a handsome profit. You have the same opportunity to cash in on the growing use of Duntile as those now in this business. In fact, you have the experience of these 350 men to guide you on the way to rapid success and independence. Investigate! The best we can do on this page is to hint at the big things in store for you.

Learn How DUNTILE Builds Better Buildings Cheaper

Mr. Sewall and the 350 other Duntile Manufacturers are reaching out and capturing new markets with their product that other materials can't touch. They can prove by actual performance that Duntile walls are **30% cheaper than those of brick—that they cost no more than frame walls.** They have the proof, too, that a Duntile wall, with its thermos-bottle triple-air space construction, is the best insulated wall yet devised. There is no end of evidence that Duntile buildings, whether they be one-car garages or mammoth hotels, are permanent, fire-resistant. and least affected by humidity and weather changes. No repairs, no painting, no lath, no furring—such are some of the savings. All this you should know about Duntile, supported by facts. Learn, too, how a Duntile wall requires less mortar by far than any other kind of permanent wall and how it is erected two and three times more quickly. The coupon will bring the facts. Send for it today.

This Valuable Book Pointed the Way for Over 350 Men



In the wealth of valuable information given in the free book "Basic Facts" you are told how others have gained their independence. It tells how you can equal every achievement through following the systematic, complete, standardized plan which has been perfected for you. Send coupon—the first step of the thorough investigation we want you to make.

Show me Show me through your book "BASIC FACTS" the facts and figures that prove how average ability and some capital win manufacturing independence for those supplying DUNTILE in each community. Also show me how I can manufacture DUNTILE in a plant of my own at a profit of 30% to 60%.

NAME.....

ADDRESS.....

CITY..... STATE.....

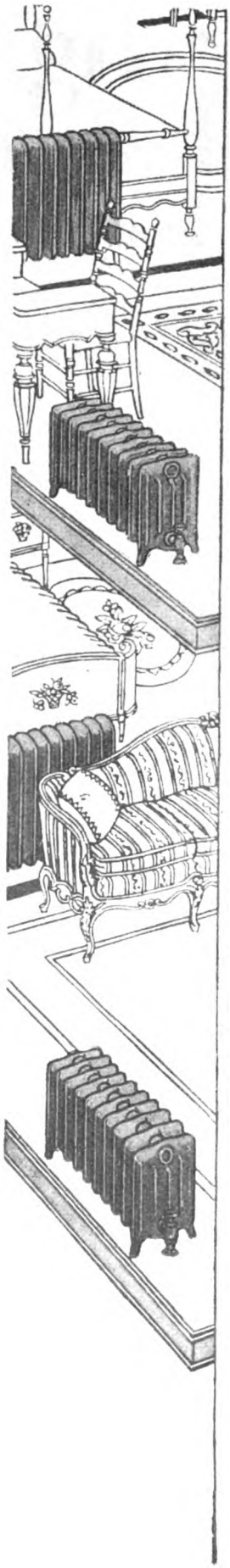
W. E. DUNN MFG. CO.

700 W. 23d STREET

HOLLAND MICHIGAN

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DEPENDABLE HEAT ALL OVER THE HOUSE WITH ECONOMY



As certain as air and taxes— Capitol guaranteed heating

Whether you are building houses to rent or to sell, small as a bungalow or large as a sky-scraper, you eliminate one annoying uncertainty by installing *Capitol guaranteed heating*.

No guessing or wondering about whether the boiler will be big enough. No worry about whether money has been spent on one too large. For the exact amount of radiation that every Capitol boiler will satisfactorily heat is guaranteed in writing.

Widespread national advertising in leading magazines is educating prospective renters and buyers to these facts. They know that with *Capitol guaranteed heating* there is always plenty of reserve power for winter's coldest days.

May we give you the complete story of the many advantages *Capitol guaranteed heating* offers for your houses?

UNITED STATES RADIATOR CORPORATION

Detroit, Michigan

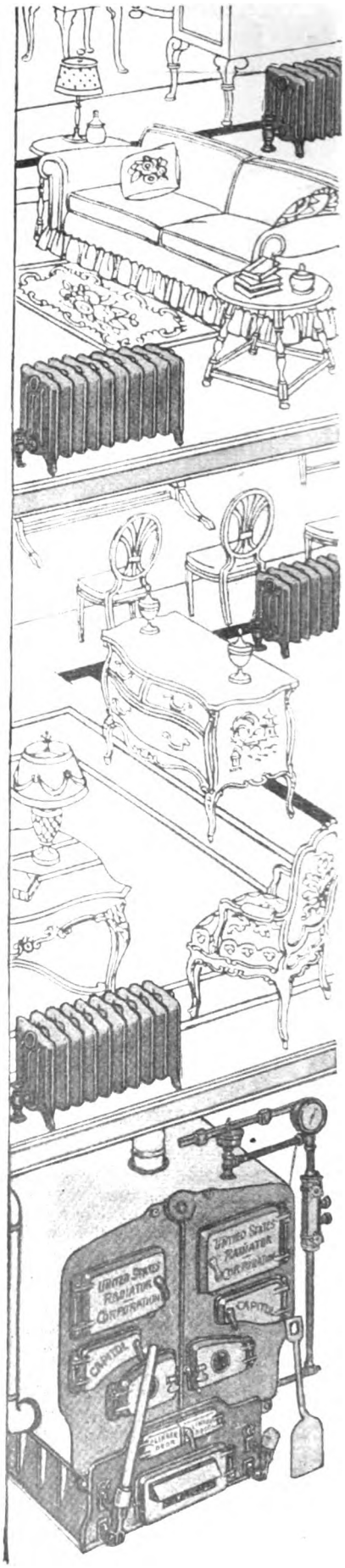
6 FACTORIES AND 28 ASSEMBLING PLANTS SERVE THE COUNTRY

For 36 years, builders of dependable heating equipment

Capitol Boilers

and

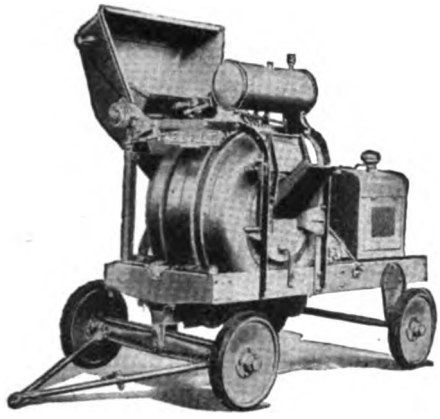
UNITED STATES RADIATORS



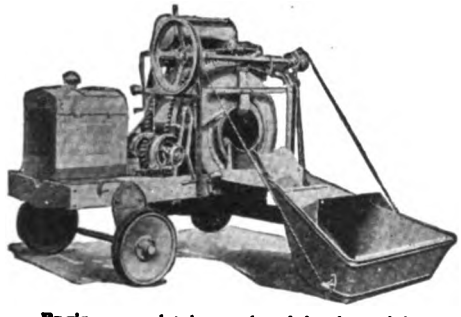
SUPPLIED AND INSTALLED NATIONALLY BY ESTABLISHED HEATING CONTRACTORS

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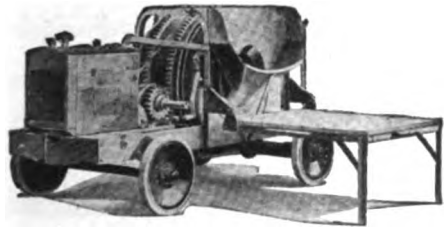
KOEHRING 7-S
DANDIE
Mixer



Charging Skip goes to high angle charging position—shoots materials into drum without pounding skip! Note low automatic water measuring tank and Disc Wheels! Liberal drum dimensions!



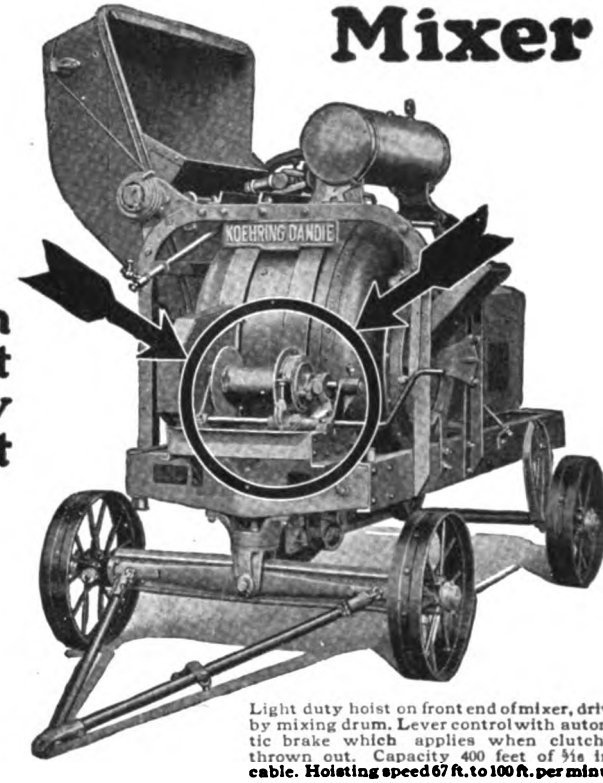
Engine completely enclosed in dust tight steel housing, sides of which raise for fullest accessibility to engine! Discharge operated from both sides of mixer.



Low charging platform, steel frame of which is hinged to mixer, and can be folded up against mixer-frame for hauling from job to job! Wide, capacious charging hopper makes charging easy.

A3201-I

With Light Duty Hoist



Light duty hoist on front end of mixer, driven by mixing drum. Lever control with automatic brake which applies when clutch is thrown out. Capacity 400 feet of ⅜ inch cable. Hoisting speed 67 ft. to 100 ft. per minute.

NO—not the cheapest mixer in the light mixer field, not cheap in any detail or in any part but the remarkable value, the big profit earner among light mixers! And still the price is within the price range for light mixers!

FAST! ***Fast*** **in charging and** ***fast*** **in discharging—a record maker in getting concrete into the forms where it pays you profit. If you're out for extra profit day by day, don't fail to send back the coupon and know** ***all*** **about the Dandie.**

4 cylinder, radiator-cooled engine, **or 2 cylinder, hopper-cooled engine!**

Worm gear reduction unit mounted on roller bearings, enclosed in dust tight steel housing and running in continuous oil bath. Big bronze-bushed drum roller bearings! Double gear drum drive! Power-charging skip, or low charging platform, automatic water measuring tank. Rubber tires and disc wheels or steel rimmed wheels. A. G. C. Standards!

Send Back the Coupon

KOEHRING COMPANY

PAVERS, MIXERS—GASOLINE SHOVELS, CRANES AND DRAGLINES

MILWAUKEE, WISCONSIN

Sales Offices and Service Warehouses in all principal cities

Foreign Department, Room 1370, 50 Church Street, New York City

Canada, Koehring Company of Canada, Ltd., 105 Front Street, East, Toronto, Ontario

Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

Send Back the Coupon for Full Details!

Take our word for it, you will be putting yourself in the way of extra profits and extra value if you learn all about the details of this Dandie Model before you decide on a one bag light mixer. No obligations. Send back the coupon today!

KOEHRING COMPANY, Dept. D—4 MILWAUKEE, WIS.

Without obligation to me of any kind, send me free information about the Koehring Dandie Light Mixer.

Name_____

Address_____

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OTIS

FOR NEARLY THREE QUARTERS OF A CENTURY

THE WORLD'S WORD FOR ELEVATOR SAFETY

OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



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RITTER
APPALACHIAN OAK
FLOORING



Toledo, Ohio, Museum
Edward B. Green & Sons, Inc., Buffalo, Architects



Park Ave. Apartments Bldgs., New York City
Built by Dr. Paterno.



Residence of Mrs. J. F. Keator, Germantown, Pa.
Edwin G. Brumbaugh, Architect



Ambassador Hotel, New York City



Evergreen Farms, Philadelphia, Pa.



Buffalo Athletic Club
Edward B. Green & Sons, Inc., Architects

Ritter Appalachian Oak Flooring has won national acceptance

BECAUSE of its beauty of grain and excellence of texture, Ritter Appalachian Oak Flooring is preferred by many discriminating builders and contractors of better homes and other fine structures from New York to San Francisco and Los Angeles.

While Ritter Oak Flooring is manufactured primarily for the better homes where taste and elegance dictate the requirements, yet its distinctive qualities make it equally desirable for hotels, apartment houses, restaurants, art museums, clubs and other buildings where floor beauty is sought.

Ritter Oak Flooring is furnished in different grades so that every purpose or need is easily satisfied. It may be laid in a variety of attractive patterns, including plain strip, parquetry squares, Ribbon Basket (diagonal), French Herringbone (diagonal), and Herringbone.

Builders and contractors who are using Ritter Appalachian Oak Flooring are finding that the savings in time, labor and material in laying, nailing and finishing, plus the greater charm of the completed floor, offset any slight difference in initial cost. Besides, houses can be sold with a minimum of sales effort.

Ask us to mail full information about Ritter Appalachian Oak Flooring or let us send our representative.

The same qualities which are so characteristic of Ritter Appalachian Oak Flooring also make Ritter Appalachian Oak Lumber superior for interior trim.

W. M. RITTER LUMBER COMPANY, *Appalachian Lumbermen since* 1890 *General Offices* Dept. B, Columbus, Ohio

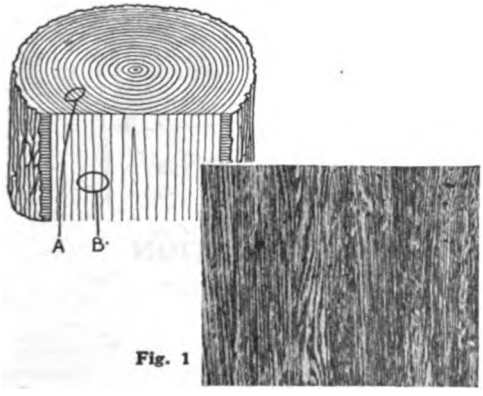


Fig. 1

These illustrations show the effect of timber growth upon flooring. Slow growth which depends on favorable climate, soil and drainage, causes the close annular growth rings (A), which, in turn, produce the fine, even grain (B), typical of all Ritter Appalachian Oak Flooring (Fig. 1), the use of which assures the most beautiful oak floors.

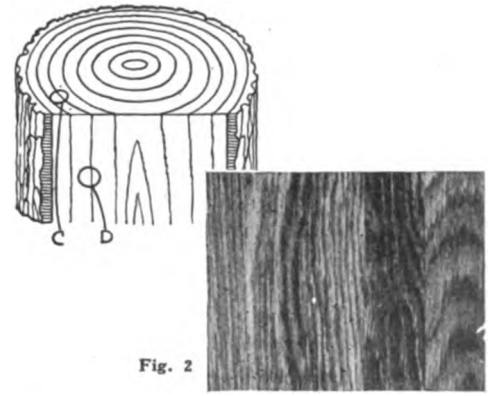
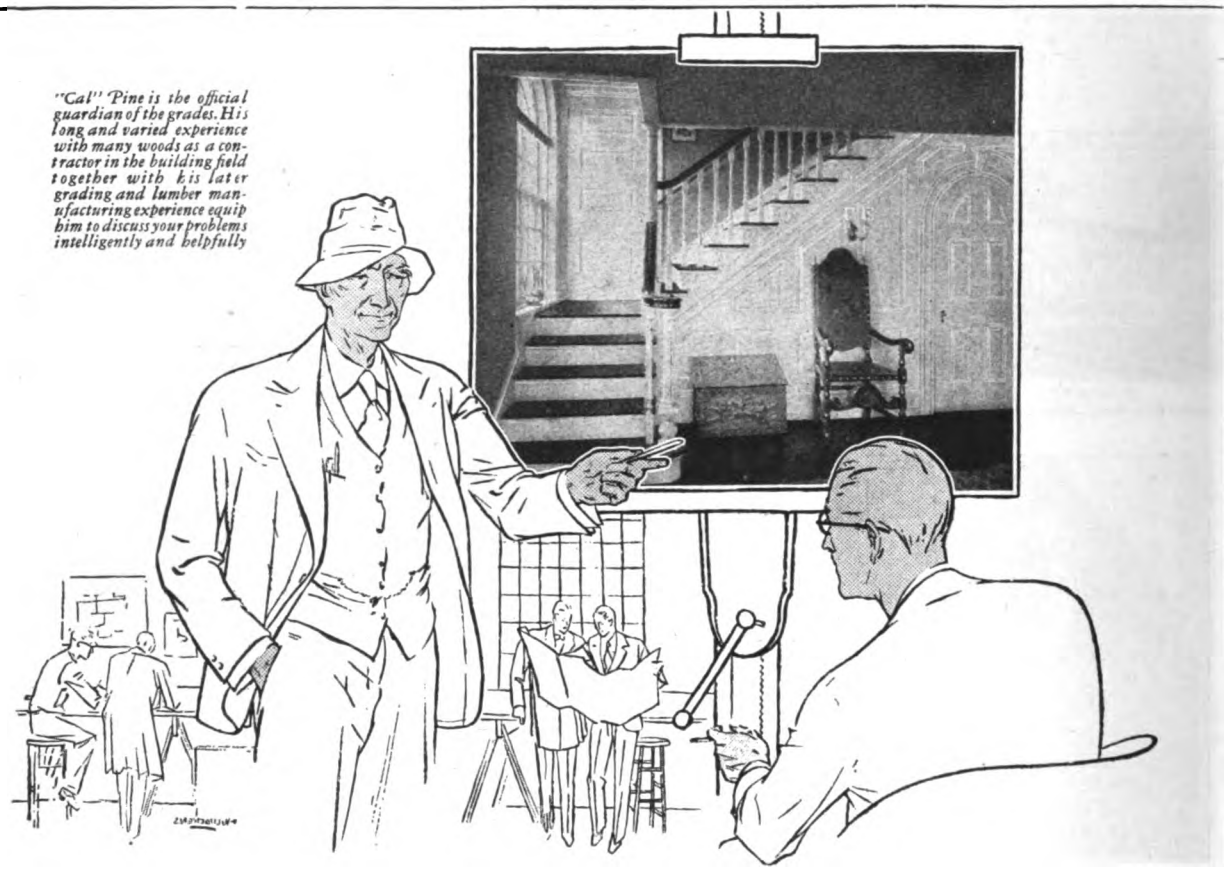


Fig. 2

On the other hand, fast growing Oak results in the wide annular growth rings (C), which, in turn, produce the coarse grain (D). Figure 2 illustrates a panel of flooring made of rapid growing Oak. Such flooring lacks the elegance and charm characteristic of Ritter Appalachian Oak Flooring which is manufactured exclusively from slow growing Appalachian Highland Oak timber.

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"Cal" Pine is the official guardian of the grades. His long and varied experience with many woods as a contractor in the building field together with his later grading and lumber manufacturing experience equip him to discuss your problems intelligently and helpfully

"Cal" Pine and the *Builder*

Discuss Interior Trim and Finish

"WHAT are your reasons, 'Cal' Pine, for recommending that interior wood-work be made from California White Pine and Sugar Pine?"

"I think you will concur in the statement that for the interior of the home—paneling, trim, moulding, mantels, bookcases, china closets, etc.—accurate joinery, paintability and freedom from warping and splitting are most important.

"Well, California Pine fulfills all these requirements. Its natural qualities adapt it admirably for interior wood-work of all kinds. This pine has a soft, uniformly even texture which cuts easily with or across the grain without splintering, thus permitting fine, sharp lines and contours, and most accurate joinery. Nails can be driven anywhere without fear of splitting. Probably you have heard carpenters remark that they like to work with California Pine because their tools cut and saw so easily and do not become dulled. For these reasons installation costs are less and material is not wasted.

"Now as to permanency of finish and appearance of California Pine. This wood contracts and expands but slightly even in extremes of temperature and moisture. Interior trim made from this wood 'stays put.' No unsightly cracks or openings develop to mar the beauty or symmetry of design or finish.

"California Pine has a smooth, satiny surface that is easy to paint and retains sleek finishes. Less paint or enamel is required to 'hide' and 'cover' this white-toned wood. The smooth finish lasts because of the absence of 'grain-raising' tendencies—there are no hard and soft streaks in this California Pine."

"What grades of California Pine are used for interior trim?"

"For trim constructed on the job, use either 'No. 1 and 2 Clear,' 'C Select,' or 'D Select.' These are all select board grades for fine paint or enamel finish. My illustrated book gives full data on sizes, grades and uses. A postcard will bring you a free copy."



CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION

Also producers of CALIFORNIA WHITE FIR • CALIFORNIA DOUGLAS FIR • CALIFORNIA INCENSE CEDAR

65 CALL BUILDING, SAN FRANCISCO

california PINE

California White Pine (tradename) **California Sugar Pine**

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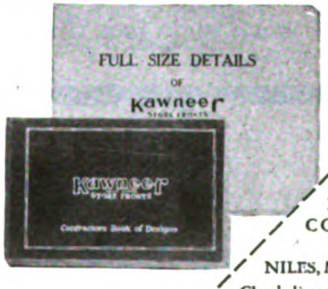


FAHEY-BROCKMAN STORE FRONT,
DENVER, COLORADO
McClelland & Pinnes, Architects
F. H. Cowell, Contractor

Unusual Problems are Easily Overcome

The versatility of Kawneer Store Front construction, a splendid example of which is shown above, makes it adaptable to the most complex fronts. Snug miters, neat copes and graceful curves are easily accomplished. The unwavering strength and yielding grip of Kawneer sash and bars means plate glass protection.

No. 40 sash, featured above, is constructed of extra heavy gauge copper mouldings and is recommended to contractors for use where the best in glass setting is desired. Moreover, it may be used with any kind of sill and with or without wood backing.



THE
KAWNEER
COMPANY
Front Street
NILES, MICHIGAN

Check literature desired:
☐ Contractor's Book of Designs,
☐ Contractor's Full Size Details.

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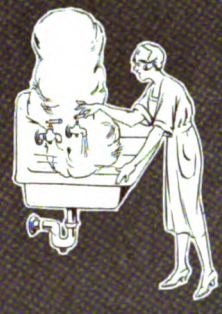
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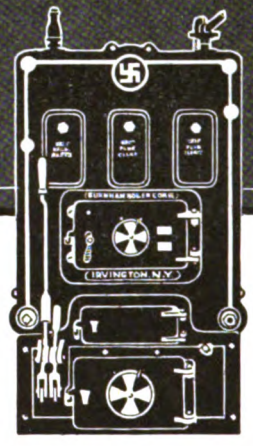
THE
Kawneer
COMPANY
NILES, MICH.

BRANCH OFFICES AND SALES AGENCIES IN 90 CITIES

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Burnham Boilers





An Extraordinary Performance In Hot Water Supplying

ONE of the Schrafft's luncheon places in Brooklyn, at their noon-day peak, required 2,000 gallons of water at a temperature of 172 degrees.

A Burnham W-27-10 Sectional High Pressure Water Supply Boiler was connected to a 1,100-gallon tank.

In actual use, it was found that their peak requirement was greatly in excess of 1,100 gallons.

So much so, in fact, that it meant the boiler was called on to render practically an instantaneous supply.

This it did, with but a two-degree lowering of temperature.

A second tank is to be installed, giving a storage capacity which will fully take care of the extra peak load at the desired 172 degrees.

We shall be glad to send you further facts about this High Pressure Water Supply Burnham.

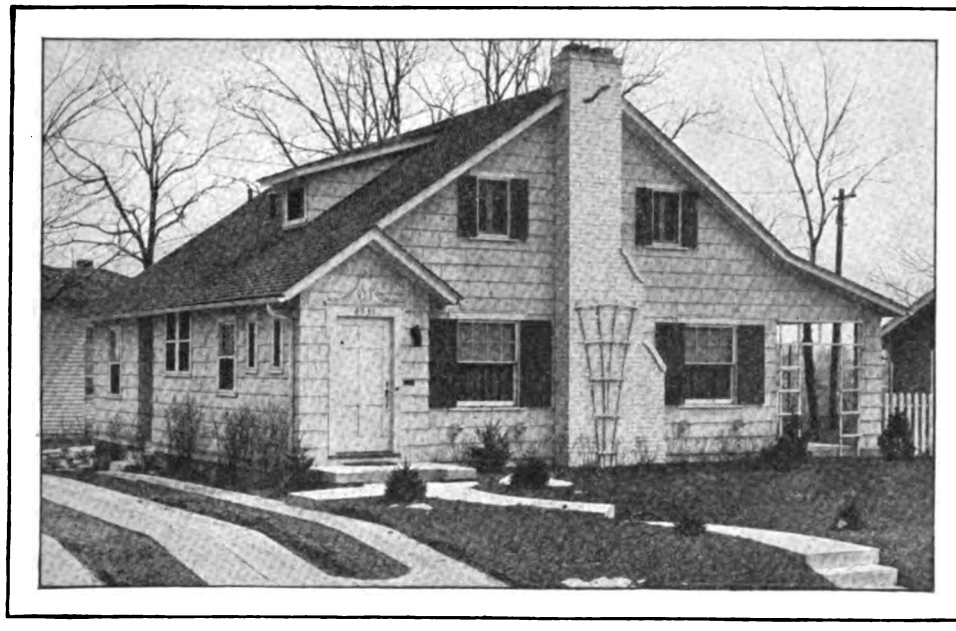
Burnham Boiler Corporation

IRVINGTON, N. Y.

New York Office: 30 East 42nd Street

Representatives and Branch Offices in Principal Cities of U. S. and Canada

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The Sales Value of Flax-li-num

far outweighs its cost !

IF YOU were buying a home and the builder said to you—

"This home is insulated in side walls and roof. It will be cool in summer and warm in winter. This insulation will reduce your heating bill a full third. In the summer your second floor will be cool all day and all night.

"The insulation is FLAX-LI-NUM—used in most of the refrigerator cars being built. It will be just as efficient 15 or 20 years hence as it is today. The railroads have given it every test and proved its supremacy in years of service.

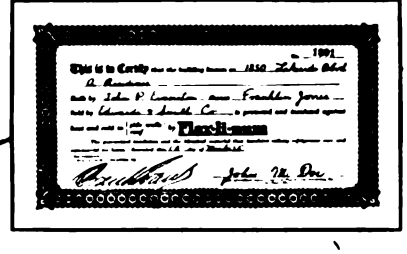
"You can't compare this home with others. *This* one, insulated with FLAX-LI-NUM, will *save you* money every winter and be *comfortably cool in summer.*"

If you were buying a home, and a builder talked like that, you'd be favorably impressed. FLAX-LI-NUM insulated homes *do* sell easier—and help overcome resistance to price.

FLAX-LI-NUM INSULATING CO., *St. Paul, Minn.*

Residence at 4931 Bell St., Kansas City, Mo. built by Jas. Hendrix. Architect, H.F. Brandenburger. FLAX-LI-NUM in outside walls & ceilings for insulation against heat and cold.

The FLAX-LI-NUM Certificate is better than a bond. It pays 20 to 30% dividends and proves that the house is FLAX-LI-NUM lined. Builders everywhere have proved its sales value, and owners appreciate receiving this evidence of good construction.



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Arrived, bright and early! Two wasted footsteps, the first in a long weary line that's sure to cut down the usefulness of this big new building. We're not exactly conspicuous—yet. We never are; until after the owner considers the cost of the footsteps and the time his people waste running around needlessly. That, by the way, is when the contractor's suggestion to install Inter-Phones comes home the closest. And incidently, if the client profits, so does the contractor.

Just another wasted footstep? Yes, to be sure. But also another argument for putting Western Electric Inter-Phones into buildings, schools and offices. For we wasted footsteps can testify that Inter-Phones are the best way of getting rid of us—and the cheapest in the end. Inter-Phones carry a name that has stood for leadership and long experience in the field of electrical communication since the very beginning of the art. And step saving is an art.

But contractors needn't tackle us singlehanded. Graybar, distributor of Western Electric Inter-Phones, has specialists who help contractors take wasted footsteps out of good building plans.

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Floor Sanders

Here's *Important* News

Do you know that users say the Master Floor Sander cuts from 30% to 50% faster than any other machine on the market?

—that it cuts closer to walls, pipes, etc.?

—that it is by far the easiest machine to run?

—that it is the easiest machine to handle due to its light weight and detachable motor?

—that it has fewer moving parts and is much more durable?

The Master Floor Sander

Get all the facts about the Master. Clip and mail the coupon below and all information about this wonderful machine, including terms of purchase, will be sent you. No obligations.

MASTER WOODWORKER MANUFACTURING CO.
612 BRUSH STREET DETROIT, MICHIGAN

Send me your floor surfacing information showing me how I can buy a Master Floor Sander on small payments, allowing machine to pay for itself.

*Name*_____ *Address*_____

*City*_____ *State*_____

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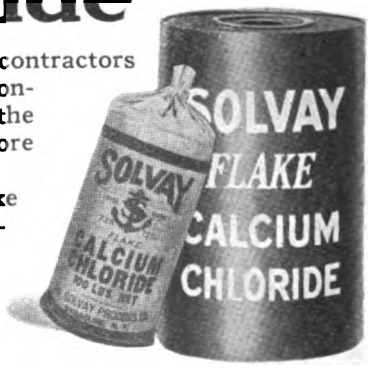
Solvay Flake Calcium Chloride is not a new or untried materal. It is a standard product specified by many of America's leading architects and engineers and made by one of America's largest manufacturers.

You are not experimenting when you use Solvay—it is a proven success. It was used in the world famous Chicago Tribune Tower (Howells & Hood, Architects), the Boston Chamber of Commerce Building (W. M. Evatt Co., Builders), the Park Square Building, Boston (Densmore, LeClear and Robbins, Architects—W. A. & H. A. Root, Builders), and hundreds of other buildings.

SOLVAY
Flake
Calcium Chloride

meets every requirement of architects, engineers and contractors for a product which will accelerate the hardening of concrete—give it early strength, not adversely affect the final set and at the same time render the concrete more waterproof.

For superior concrete construction—use Solvay Flake Calcium Chloride with Portland Cement! 75 conveniently located shipping points insure prompt delivery at minimum transportation cost.



Write for Booklet 2353

THE SOLVAY PROCESS COMPANY

Wing & Evans, Inc., Sales Dept., 40 Rector Street, New York

Boston Syracuse Chicago Indianapolis Cleveland Cincinnati
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When It Comes to a Show-down

Often on important building jobs Ruberoid Shingles are called upon to prove their merits in comparison with other shingles. When it comes to such a show-down . . . Ruberoid Shingles make good.

In roofing the convalescent cottages of the Hope Hospital of Providence, R. I., Mr. Marsden, director of the hospital, demanded the utmost of all building materials used. Considering the roof, he carefully checked different shingles, then through The John Barnes Roofing Co., selected Ruberoid. Mr. Marsden's letter tells the story briefly.

Whether you are roofing a small bungalow or a palatial home the Ruberoid line affords you the greatest variety—numerous color effects in seven different styles of shingles, also five grades of smooth surfaced and mineralized roll-roofings.

Ask your building supply dealer about the *full Ruberoid line* or write us. The coupon is for your convenience.

HOPE PRIVATE HOSPITAL
PROVIDENCE,
RHODE ISLAND

The Ruberoid Co.
Boston, Mass.

Gentlemen:

The main factor which influenced me in the selection of your shingles was their fire proof qualities and fine appearance and the fact that they seem more rigid and heavier than the average shingle of the same type. I expect them to bear out my expectations as to wearing qualities.

The two roofs which The John Barnes Roofing Co. covered for me at Warwick Neck, Rhode Island are calling forth the most favorable comment.

Yours truly,

Thomas E. Marsden

The RUBEROID Co.

Chicago **New York** **Boston**

RU-BER-OID
SHINGLES AND ROOFINGS

B A 10

The RUBEROID Co.
95 Madison Ave., New York City

Gentlemen:
Please send me information and samples of

Ruberoid Strip-shingles
☐ Octagonal ☐ Square ☐ Hex-agonal

Ruberoid Individual-shingles
☐ Giants ☐ Standard ☐ Lock-down

Ruberoid Roll-roofing
☐ Slate-surfaced ☐ Smooth-surfaced

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Douglas Fir Facts

No. 4

Perfect Structural Timbers

Douglas Fir trees produce structural timbers that have no equal in size or length.

BUILDERS find permanent satisfaction in Long-Bell trade-marked oak flooring. Its excellence of manufacture makes it economical to lay and finish—a beautiful, durable floor.

Unusually Wide Stepping

Stepping, perfectly vertical and *all heart*, can be had ten inches and wider in Long-Bell Douglas Fir.

Exceptional Strength for Weight

"Douglas Fir has unusual strength for its weight," says an expert. "From the fine-grained, soft, old growth wood of the finished lumber, to the hard, tough wood of the structural timber, it is excelled in strength by no other soft-wood species."



Trade-Marked

Long-Bell Douglas Fir lumber and timbers are trade-marked for identification of unusual thoroughness in manufacture—plus more than fifty years' experience as lumbermen.

Improving Methods of Manufacturing

Devising and adopting the best processes of manufacturing, *in the interest of the user of lumber products*, give added reason for the superior quality of Long-Bell trade-marked Douglas Fir.

THE LONG-BELL LUMBER COMPANY
R. A. LONG BLDG. *Lumbermen Since 1875* KANSAS CITY, MO

LONG-BELL
Trade Marked **LUMBER**

Douglas Fir Lumber and Timbers; Western Hemlock Lumber; Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties. Guard-Rail Posts, Piling; Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors; Box Shooks.

KNOW THE LUMBER YOU BUY

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The BETTER BUILT home is EASIER to sell

THAT "goods well made are half sold" applies to houses as well as to anything else. The well-built house is not only easier to sell—it keeps its owner sold!

Through this nation-wide better homes movement, home seekers are coming to learn that only quality building materials and equipment go to make up a quality home.

Visit one of these model homes which will be demonstrated to the public throughout the United States this year! See for yourself how these quality products and building materials are used to make the small house well built. You too can make the homes you build easier to sell by specifying these building materials and household equipment products.



Under the supervision of

HOME OWNERS' SERVICE INSTITUTE · INC.

L. PORTER MOORE, *President*

Standard specification, protected by our new Safeguard Policy—

Anaconda Brass Pipe, Copper Gutters, Leaders, Flashings and Bronze Wire for Screens
THE AMERICAN BRASS COMPANY

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AMERICAN GAS ASSOCIATION

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G-E Wiring System
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Graybar Clothes Washer
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KELLEY ISLAND LIME & TRANSPORT CO.

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Long-Bell Trade-Marked Lumber and Oak Flooring
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Natco Hollow Building Tile
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Miracle Doors
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STANDARD GAS EQUIPMENT CORPORATION

Valspar Varnishes, Varnish Stains, Enamels
VALENTINE & COMPANY

Kitchen Maid Standard Unit System of Kitchen Equipment
WASMUTH-ENDICOTT CO.





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HOME OWNERS' SERVICE INSTITUTE, INC.
441 Lexington Avenue, New York City
DEPT. T-20

☐ I enclose ten cents in stamps for one copy of "A Manual of Home Building."

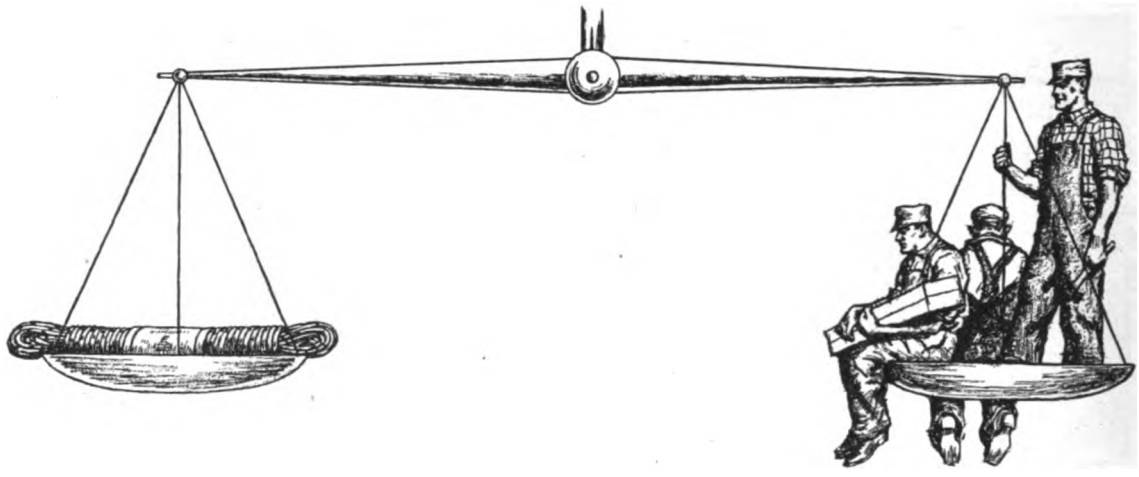
☐ I enclose $3.00 in cash, check or money order, for Vol. 1, "The Books of a Thousand Homes."

Name _____

Address _____

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Cheapest—in the end!

Samson Spot Sash Cord will last at least Twenty Years

They say that in China everybody passes the buck. Maybe that's what's the trouble. . . .

IT IS passing the buck to the other fellow to sell him a cheap sash cord. It may do the work for a year or two. But sooner or later it wears out, or breaks, or gets so lumpy it won't go through the pulley, and then it has to be replaced. And if it stretches before the house is sold, the windows must be hung all over again. It costs money to rehang windows.

There is more profit, more genuine satisfaction in using good sash cord. Our Samson Spot Cord is clean, smooth, even, and free from all imperfection. It is solid braided, made of extra quality cotton yarn spun in our own mills. It contains no loading or other adulteration. It is guaranteed free from imperfections of braid or finish — and the Colored Spots, our trade mark, identify it everywhere.

Let us send you our catalog and samples. We make a complete line of braided cord.



Trade Mark Reg. U. S. Pat. Off.

SAMSON Spot Sash Cord is made in all sizes from No. 6 (3-16 in dia.) to No. 12 (3-8 in dia.).

We have a specification sheet, based upon long experience, that shows at a glance the size cord and pulleys to use for various weights. May we send you one?

Made by

SAMSON CORDAGE WORKS

88 BROAD STREET BOSTON, MASS.



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A group of attractive houses built by E. W. Peters, Milwaukee. Oak Floors used.

Oak Floors simplify selling

"Better homes not only bring better prices, but sell more easily, and eliminate costly tie-up of capital." "I include equipment I know is right, and in most instances select nationally advertised products, known the country over, with proved excellent qualities."

These two principles in building have proved profitable to E. W. Peters, Milwaukee builder, and will to any home builder who realizes the value of confidence and demonstrated worth when approaching a prospect.

Oak floors are standard

They satisfy the desire for beauty, dignity, and harmony. Their wearing qualities make them an investment, increasing in worth as time improves their mellowness and beauty. The cost, compared with temporary perishable floor coverings, is negligible.

Add distinction to furnishings

The characteristic grain and figure of oak lends itself to any decorative scheme adopted, either in natural coloration, or finished to conform to interior woodwork.

OAK FLOORING BUREAU, *Chicago*

Free literature

We will supply you with illustrated literature to show prospects. Also technical booklets for your use, with grading rules, standard measurements, suggestions for proper handling, laying, and nailing.

Mail the coupon



TEAR OUT AND MAIL

OAK FLOORING BUREAU
841 Hearst Bldg., *Chicago*

Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

*Name*_____

Address _____

*City*_____ *State*_____

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Built Right — Priced Right

. . . endorsed by THOUSANDS

Silent Automatic method of Direct Heating is equally efficient in round, sectional or steel boilers.



In going over the Silent Automatic Oil Burner detail by detail and piece by piece you will find only the highest quality of workmanship and materials. In fact, pound for pound, Silent Automatic probably costs more to produce than any other burner of which we have knowledge.

Its low price of $350 is made possible by incomparable simplicity of construction and by quantity production.

That it is unequalled in its many superiorities is verified by the great number of home owners who have chosen Silent Automatic in spite of the fact that they could afford to buy a burner at twice the price. Only enthusiastic satisfaction can help produce the unequalled sales records established by Silent Automatic.

$350

Installed with complete automatic safety and operating control equipment heretofore found only on the highest priced machines.

Cost of tank for each installation depends upon oil storage desired.

Silent Automatic is displayed in operation in the Liberal Arts & Manufacturers Building at the Sesquicentennial International Exposition, Philadelphia.

Write for complete information

SILENT AUTOMATIC CORPORATION
255 Meldrum Avenue Detroit, Michigan

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SILENT AUTOMATIC



THE NOISELESS OIL BURNER

Listed as Standard by the Underwriters' Laboratories

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Ready as Soon as Mixed

BRIXMENT—the mason's cement for brick, tile and stone masonry—is ready to mix as soon as delivered and ready to use as soon as mixed . . . . It is naturally so smooth and easy-working that no lime is necessary. This cuts out entirely lime beds, slaking and soaking—a substantial saving before a brick is laid . . . . In addition, contractors are reporting savings of $1.50 to $2.50 per thousand brick *in laying time alone* . . . . Add to this the other advantages and economies of BRIXMENT, and you can understand why more BRIXMENT is being used this year than in any previous year.

Try BRIXMENT *and Know*

One part BRIXMENT mixed with three parts sand—either by hand *or in your concrete mixer*—makes the smoothest, fastest-working mortar that ever slid off a trowel . . . . BRIXMENT mortar requires less mortar color and will not fade the color used . . . . Stays easy-working on the mortar board longer and keeps your workers satisfied . . . . A few buildings laid in BRIXMENT: New York Times Annex, *New York;* Biltmore Hotel, *Miami;* Senior-Junior High School, *Baltimore;* Fisher Body Ohio Company Plant, *Cleveland,* etc.



New York Mill Now Shipping BRIXMENT *to All the East*

To meet the constantly-increasing demand for BRIXMENT in the east, we have had to build another large-capacity mill at Brixment, N. Y. (formerly Akron Falls). This makes BRIXMENT easily available for every project in the eastern states . . . . Once you've tried BRIXMENT, you'll never go back to the old methods. If your dealer is not yet supplied, write for quotations direct. LOUISVILLE CEMENT CO., Incorporated, General Offices, Louisville, Ky.

Cement Manufacturers for Nearly a Century

BRIXMENT *for Perfect Mortar*

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These 35,000 Ton Towers

Rest not on solid rock but upon SOUTHERN PINE

KNOWING ones said, "It can't be done," when the Roeblings planned to float the towers of Brooklyn Bridge instead of sinking the foundations to bed rock. That was in 1870. Today, fifty-six years later, elevated trains loaded to the guards throw weights, strains and shocks, undreamed of by the Roeblings, upon old Brooklyn Bridge. Still it stands, safe to the thousands who daily trust their lives—although unaware of it—to the strength of the Southern Pine underneath the 300 foot stone towers that alone weigh 35,000 tons each.

Upon the roofs of the sunken, floating caissons—built of layer upon layer of foot-square timbers of specially selected Southern Pine—these towers rest with a pressure of four and a half tons to the square foot.

There is no record of the tests made by the Roeblings by which they determined that Southern Pine was the strongest structural wood on earth.

But today, thousands of tests—130,000 in the U S. Forest Products Laboratory alone—have proven that, in strength, Southern Pine excels.

The Roeblings themselves had to supervise the selection of their Southern Pine.

Today you can buy it at any lumber yard east of the Rocky Mountains—and know you are buying it because it is now possible to obtain Southern Pine that is trade-marked.

The Roeblings had to pass upon each stick. Lives depended upon the flawless strength of their timbers.

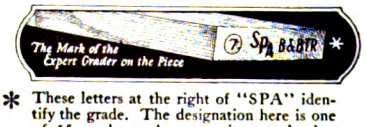
Today you will find that Southern Pine from Southern Pine Association mills is Grade-Marked as well as Trade-Marked—its quality determined by expert graders and vouched for by the Southern Pine Association.

What the Roeblings did in their structure with infinite pains and with the derision of "wise acres" ringing in their ears, you can do easily in your structure with full confidence that Southern Pine will serve you as it served them, and will continue to serve through the centuries. Millions of trees of this incomparable wood grow larger and stronger every year. Southern Pine is and will continue to be the Supreme Structural Wood of the World.

Southern Pine
What It Is—What It Is Used For

a valuable book, discusses the stresses to which the wood in your structure may be subjected. It recommends correct uses of Southern Pine. A recent publication. Send for it. It is free. Build with confidence.

Southern Pine Association
150 Interstate Building
NEW ORLEANS, LOUISIANA



* These letters at the right of "SPA" identify the grade. The designation here is one of 15 grade-marks appearing on lumber from Southern Pine Association mills.

Southern Pine—The *Supreme Structural Wood* of the World

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, October, 1926

Eyesores *are Vital Issues in Every Afflicted Community*

EVERY village, town and city in the United States has inherited its eyesores from its immediate ancestors. No blame is attached to the heirs for accepting their heritage.

But considerable blame may be attached to them if, through indifference or inertia, they permit a continuance of conditions which are disastrous to genuine community progress.

If a stranger were told in glowing terms of the headway made in American building and then were shunted on a journey over any railroad in any direction he would, in a short time, consider himself the victim of some sardonic jest.

For, at nearly every approach to a community and at nearly every station stop his eyes would be assaulted with unsightly buildings, ramshackle tenements, litters of rubbish, choked streets, the debris of fires long since extinguished and a whole panorama of riffraff—the sweepings of community unconcern and easy-going apathy.

And, as a rule, blemishes of like nature would be found in other neighborhoods throughout nearly every commonwealth in the country.

NO PLACE IN AMERICA CAN AFFORD THAT KIND OF ADVERTISING. THE LOSS IT CAUSES TO EVERY COMMUNITY IT AFFLICTS IS BEYOND COMPUTATION.

What does it avail the Chambers of Commerce, the better business movements and kindred organizations to talk and write glowingly of the beauty of their town or city and then confront the alighting prospective citizen or investor with the precise opposite?

Why prate of civic virtues and industrial opportunities while the value of real estate sags and insurance risks mount to a point where the insurance companies withdraw?

True, a first class fire would probably provide a quick solution to a vexing problem if any guarantee could be made that the fire would be confined to the ugly area. But fires starting in such places usually end as conflagrations—the fine is wiped out with the coarse.

Why expect much progress from social service organizations when the real root of evil, crime and immorality lies in physical environment, in repulsive surroundings, in BUILDINGS which have all the charms of a sewer and none of its utilities?

TO walk all around a vital issue and affect blindness to its existence smacks of pettifogging. Any policy of strangling truths will have little positive result. The people must be shocked into new attention to conditions of which long familiarity has made them contemptuous.

It appears to us that these conditions offer the building men of America a real opportunity to contribute to the cause of civic betterment and to speed progress in their own field of endeavor.

Property owners, real estate men, loan associations, builders, contractors and architects all have a stake at interest. The initiative might well be said to lie with them.

One method in starting a movement of this kind would be to show this editorial to the editor of the local newspaper whose previous work had proved him to be one who has labored for his readers always and for those who would exploit those readers, never. For rest assured that politics, good and bad, will show an active interest.

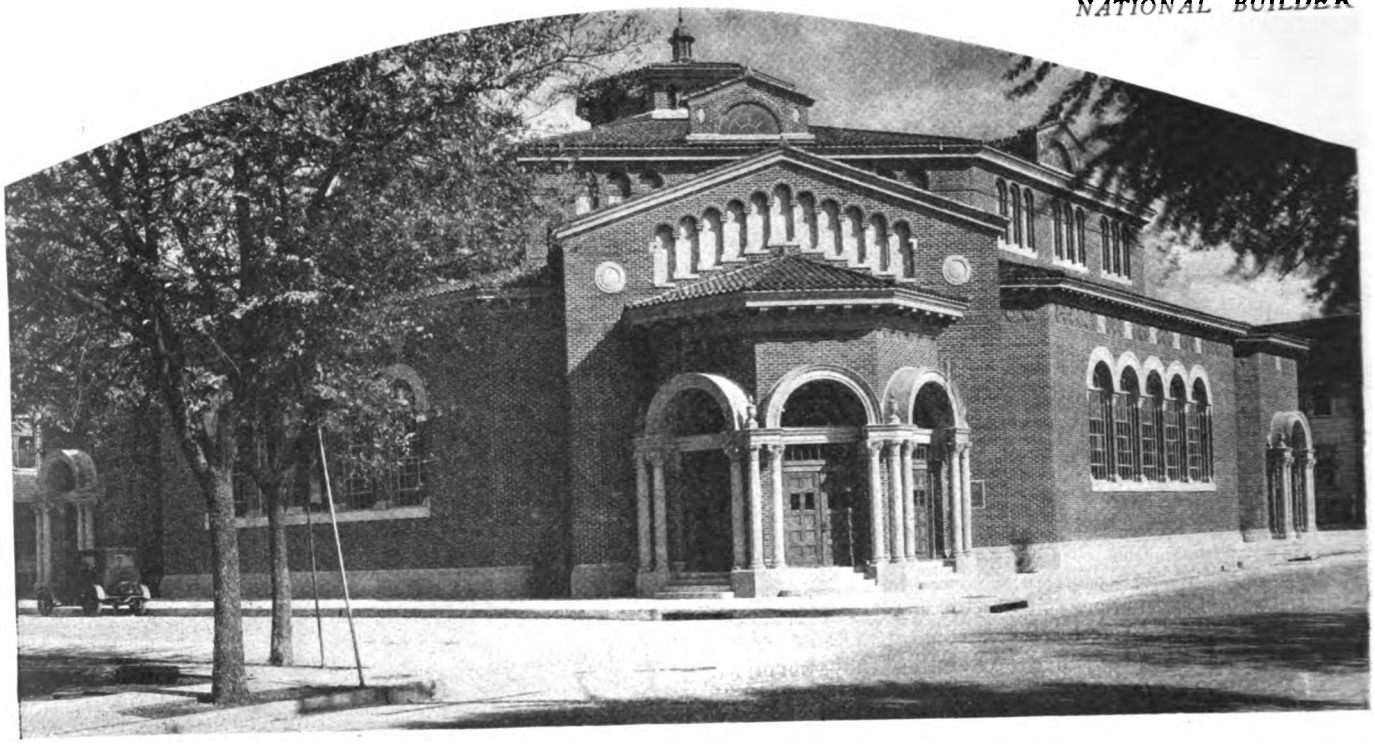
Such an editor's sense of news values, his interest in circulation and his trained imagination will leap ahead and grasp the full significance of this idea.

A series of articles photographically illustrated; testimony of conditions from fire insurance companies and others; appeals for close co-operation on the part of the Chamber of Commerce, women's organizations and other civic bodies; competitions for designs for improving a given locality; estimates showing costs of improvements—these are some of the essential factors in a campaign of this character.

The object is to arouse public opinion and awaken civic pride and then to focus these on whoever or whatever is responsible for present conditions. It will not be hard to prove that the people, individually and collectively, directly and indirectly, will profit immensely with the reformation.

TO ANY LONGER BEAR THE BURDEN OF "EYESORES" IN AMERICA IS WANTON WASTE AND SHEER NONSENSE.

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A Church with a Friendly

New Building for FIRST BAPTIST CHURCH

Built in San Antonio, Texas

JUST as every community has its large office buildings, its temples, and its municipal structures to which it can point with pride, so, too, must it have good churches. San Antonio, Texas, has these buildings and these temples. Its latest contribution to the works of architecture is the new First Baptist Church, recently completed.

The building is octagonal in shape, this form being chosen to give a pleasing rostrum at one side without cutting off one corner of a square; which, in a building, is unsightly. Projecting entrances are provided on three sides of the octagon, a fourth is used for the rostrum; and, between these, are groups of windows each five feet wide and fifteen feet high. On two of the side walls, these larger windows are augmented by additional smaller windows below them. This is made necessary because of a fall of over four feet in the bowled floor.

Architects

W. N. Noonan Co.



The style of the building, on the exterior, is Lombardic with just a trace of Spanish to give a touch of pleasantness. The walls are of solid brick over a concealed framework of concrete, and are faced with a tapestry brick shading from reds to dark greys and browns. These are relieved and the entire building ornamented by the use of cast stone.

The roof is the largest of its kind in the city. It is of Spanish tile pattern to which a dash of variety is added by means of bright-colored pieces against the dark tan background.

The interior is built along classic lines of which the ceiling is probably the dominating feature. This ceiling arches up from each side of the octagon to a central point 42 feet above the floor. Its entire surface is paneled with plaster mouldings and beams, and the centers of the panels are given an acoustical treatment to prevent excess reverberation.

Builders

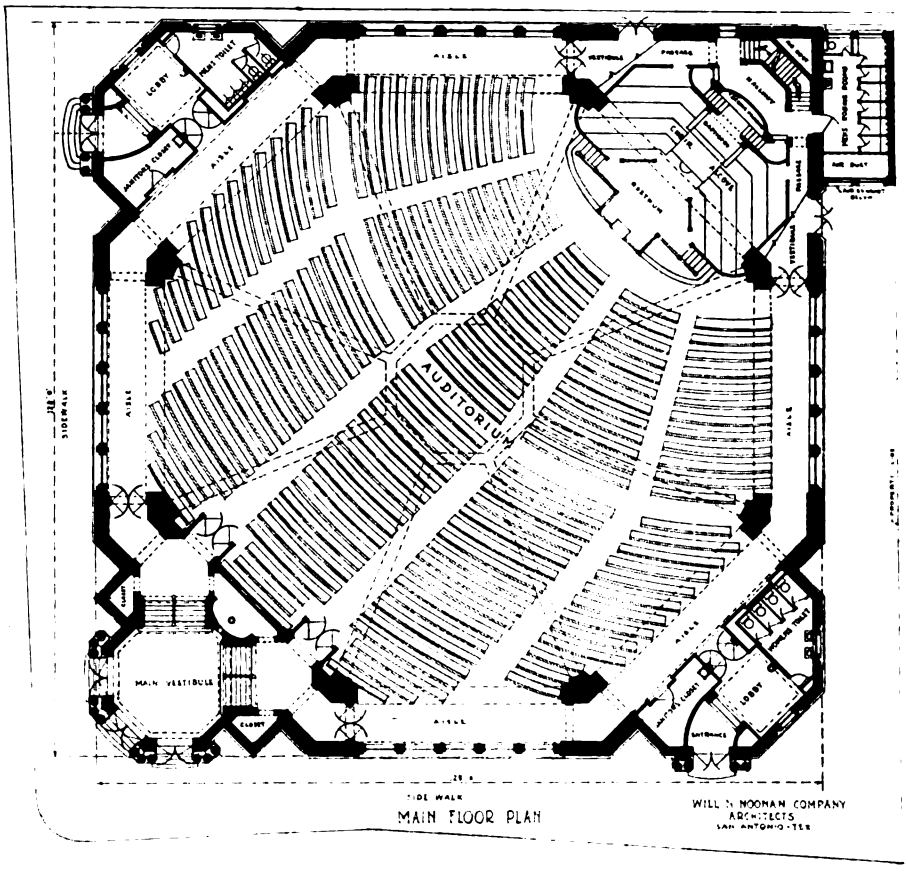
L. T. Wright Co.

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Two kinds of flooring are used: A leather-colored composition under the seats, which is applied to the concrete slab underneath in the same manner as a cement finish. In the aisles, cork tile is used.

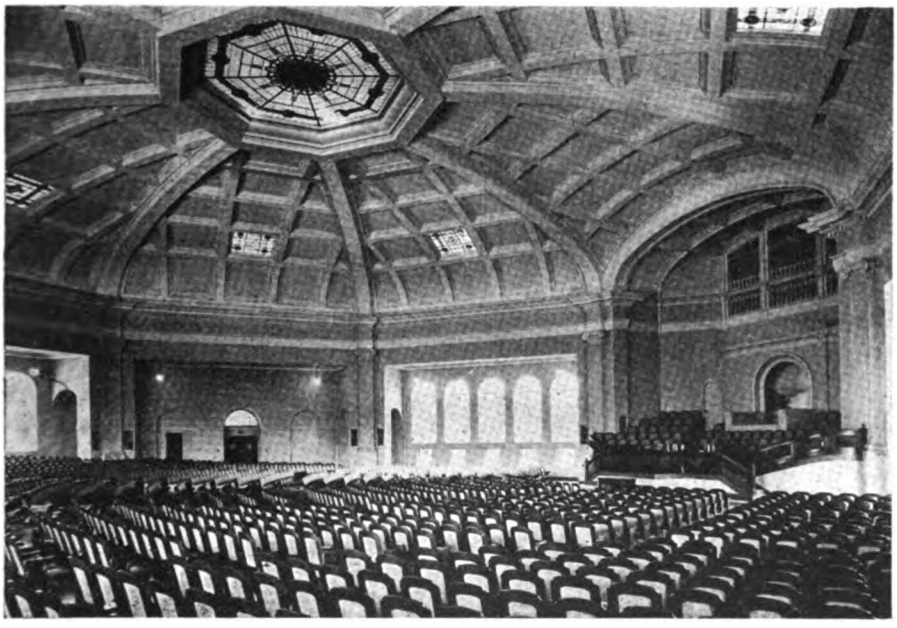
Auditorium is furnished with opera chairs having cane seats and backs, and are finished in walnut to match the interior wood-work. The seating capacity is approximately 2000.

Back of the baptistry is painted a scene from the Jordan river, this forming the main point of interest above the rostrum. The baptistry is then so arranged that the water from the river in the painting appears to flow over the front glass of the baptistry, creating a very novel and artistic effect. Behind the baptistry an organ console has been placed above, back of an ornamental wood grill, a three-manual Moeller Organ is to be placed in near future.



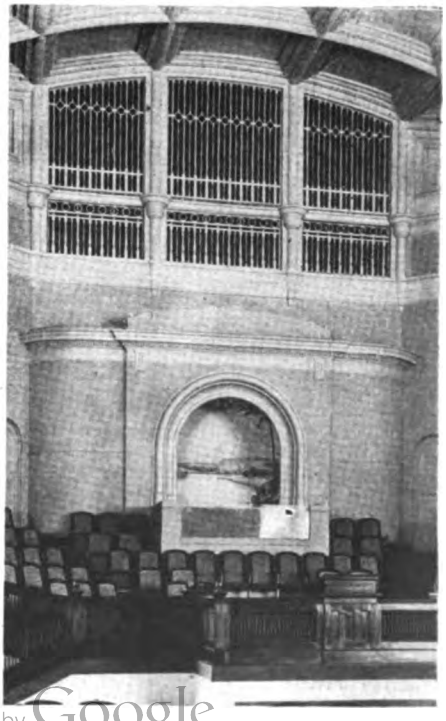
Spirit

By B. C. Reber



IN general outline this church plan is octagonal with projecting entrances on three sides and a fourth given over to a rostrum. Style is Lombardic with Spanish influence

CEILING arches converge at a point 42 ft. above the floor. Ceiling has been given an acoustical treatment of hair and asbestos felt held with cheesecloth. Note painting of River Jordan arranged in conjunction with front glass of baptistry



The heating plant is located across the street in the old building and steam is piped through a five-inch insulated pipe to an equipment room above the organ chamber. Here it enters and is mixed with fresh air before being blown through two immense ducts and out into the auditorium. The bad air is removed through a multitude of openings and carried out and exhausted.

A cooling system has been provided which will operate through the summer months in much the same manner as the heating equipment. Fresh air is forced through a fine spray of water and is then distributed in the same manner as the warm.

An indirect lighting system has been used almost exclusively, the main source being through a trough of lights concealed by a large moulding which runs completely around the auditorium. This is augmented by powerful lights back of the skylights and some frosted fixtures placed over the outer aisle.

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A BILL *of* MATERIAL *for the* English Cottage

Prepared by Walter J. Fradgley

Shown on the opposite page. Perspective drawn by Arthur Bates Lincoln

THE quantities given are for estimating. All measurements are NET unless otherwise noted; area given for such item as sheathing, flooring, etc., are NET areas to be covered with no allowance for matching, waste, etc. Minor outs have been disregarded.

Such items as clearing site, temporary work, and protection, etc., scaffolding and general equipment and supplies, have not been included.

EXCAVATION

Main excavation	283 Cu. yds.
Areas, trenches and pier footings	22 Cu. yds.

MASONRY AND IRON WORK

Concrete exterior foundation walls & footings	1486 Cu. ft.
Concrete porch platforms 4" thick	192 Sq. ft.
Common brick—exterior walls & chimney	15925 Brick
Face brick	13993 Brick
Face brick for fireplace	262 Brick
Fire brick for fireplace	90 Brick
Fireplace damper	1 Piece
Ash dump	1 Piece
Ash pit door & frame	1 Piece
C. I. cleanout, door and frame	1 Piece
4" Lally columns, caps & bases	3 Pieces
Joist anchors	40 Pieces
Flue lining 8" x 12"	58 Lin. ft.
Cement floor in basement and areas	784 Sq. ft.
Angle iron lintels over window and doors	920 Lbs.
Tile floor porch (Approx. 5 x 8)	690 Pcs.

LATH AND PLASTER

Gypsum or lime plaster—interior walls & ceilings	744 Sq. yds.
Exterior stucco—porch & dormers & gables	79 Sq. yds.

CARPENTRY

6x8	Girders	128 Bd. ft.
2x10	Joist—1st and 2nd floors	2054 Bd. ft.
2x6	Ceiling joists	760 Bd. ft.
2x8	Roof rafters	1763 Bd. ft.
2x4	Interior studs & plates	1622 Bd. ft.
1x6	Roof boards & dormer sheathing	2157 Bd. ft.
	Building paper—dormers, gables, etc.	10 Squares
1x6	Rough flooring	2025 Bd. ft.
	Floor paper under finished floors	17 Squares
1x8	Sheathing—exterior stud walls	1600 Bd. ft.
2½"	Face finished floors	1963 Bd. ft.
1x3	Bridging	108 Bd. ft.
	Furring & grounds	180 Bd. ft.
	Coal bin partition	180 Bd. ft.
1⅛"x6"	verge boards & half timber work	282 Bd. ft.
6x6	Porch posts	64 Bd. ft.
6x8	Porch beam	64 Bd. ft.
	Wall board (in place of plastering)	6800 Sq. ft.

MILL WORK

Closet shelving	78 Bd. ft.
Hook strip	78 Lin ft.
Chair rail—kitchen and bath	104 Lin. ft.
Base & quarter round	567 Lin. ft.
Picture mould	360 Lin. ft.
Medicine case	2 Pieces

The Complete Working Plans Shown in BLUE PRINT on following pages

Fireplace mantel	1 Piece
China cases	2 Pieces
Kitchen cabinet	1 Piece
Exterior doors—frames & trim complete	4 Openings
Interior doors—frames & trim complete	16 Openings
Cased Opening—frames & trim complete	3 Openings
Casement sash—frames & trim complete	10 Openings
Triple casement sash—frames & trim complete	2 Openings
Quad. casement sash—frames & trim complete	1 Opening
Mullion casement sash—frames & trim complete	2 Openings
Basement sash—frames & trim complete	5 Openings
Flower boxes & brackets complete	2 Pieces
Porch rail	3 Panels
Gable brackets	5 Pieces

STAIRS

1st Floor to basement	1 Flight
1st Floor to 2nd floor	1 Flight

PAINTING

Exterior woodwork	15 Squares
Interior woodwork	28 Squares
Finished floors	15 Squares

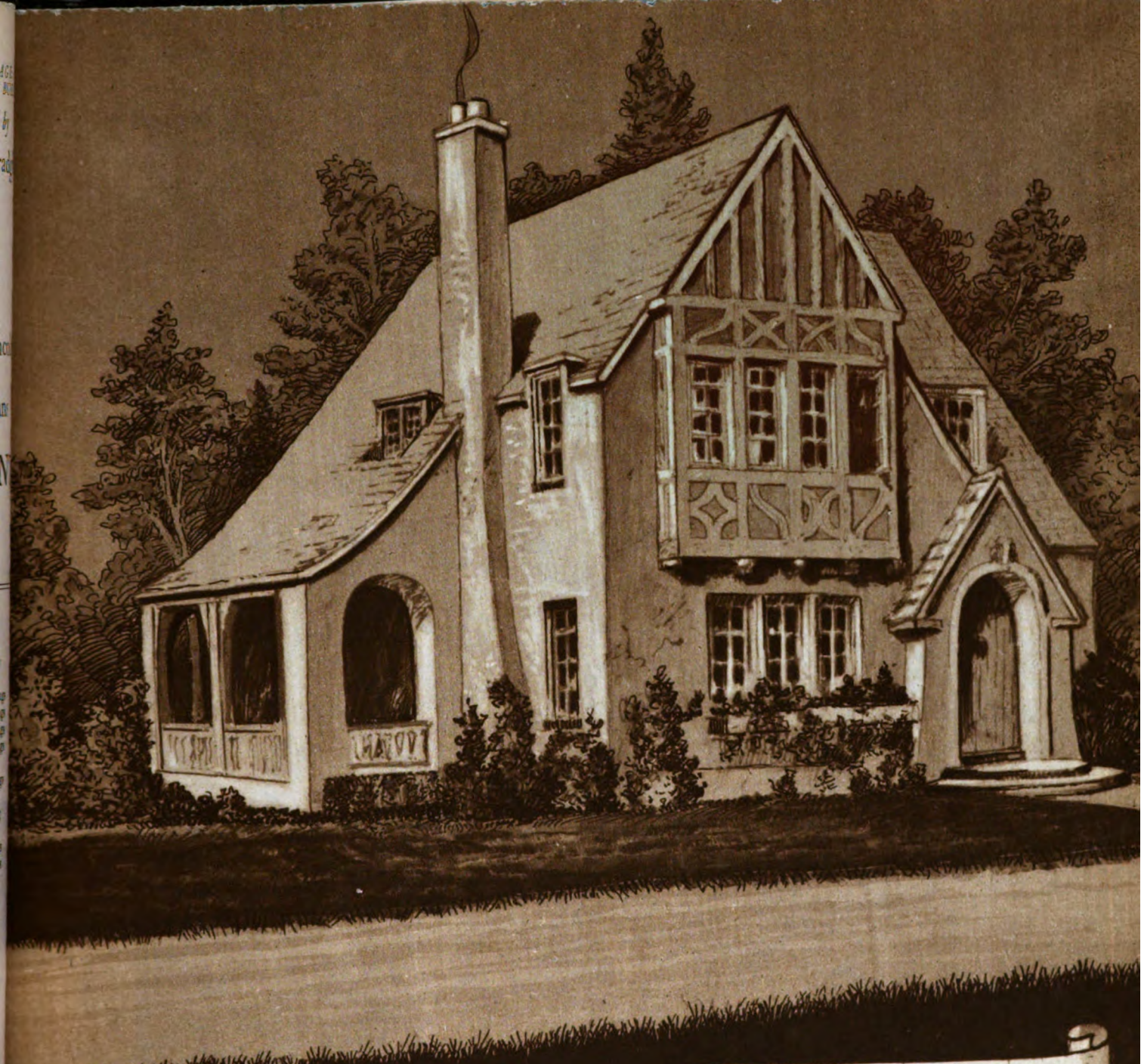
SHEET METAL

Slate roofing	18 Squares
Slater's felt	18 Squares
Metal deck dormers	188 Squares
Hanging gutters	63 Lin. ft.
Downspout	70 Lin. ft.
Chimney flashing	12 Sq. ft.
Flash and counterflash	39 Lin. ft.
Valley flashing	62 Lin. ft.

HARDWARE

4x4	Exterior door butts	6 Pairs
	Exterior door lock sets	4 Sets
3½x3½	Interior door butts	18 Pairs
	Interior door lock sets	18 Sets
3x3	Casement butts	34 Pair
	Top and bottom bolts	8 Sets
	Casement fasteners	23 Pair
	Casement adjusters	34 Sets
	Double acting door hinges	1 Set
	Door bumpers	21 Pieces
2½x2½	Cupboard door butts, cases, etc.	8 Pair
	Elbow catches	2 Sets
	Cupboard catches	5 Pieces
	Drawer pulls	2 Pieces
	Coat hooks	8 Dozen
	Basement sash hardware	5 Sets

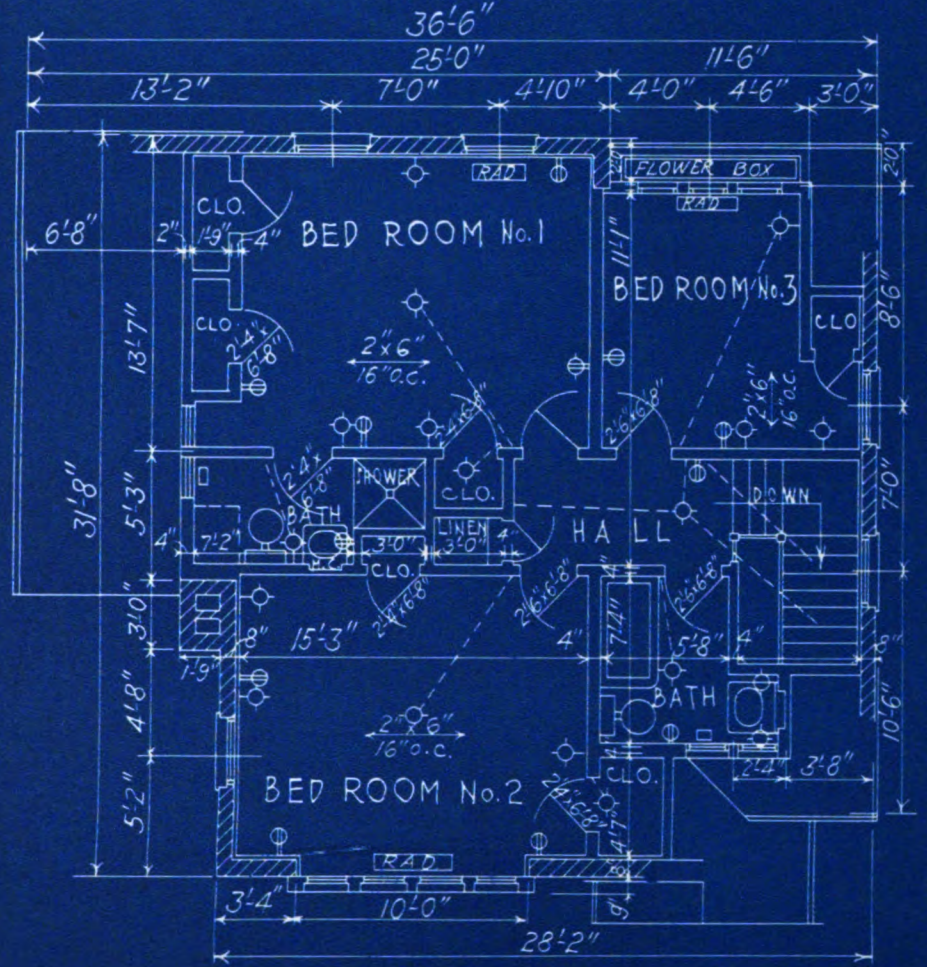
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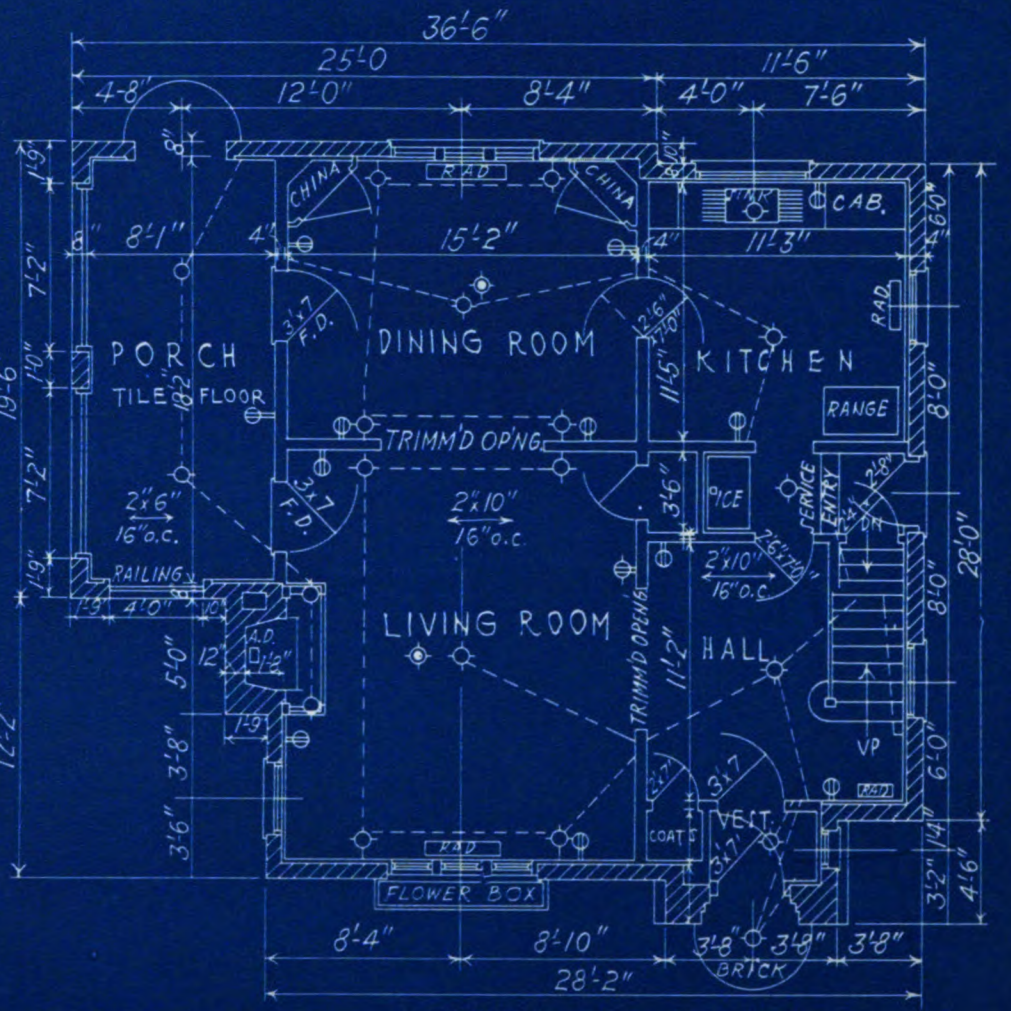
Olde England Here Lends an Air *of* Dignity

THE crowning feature of this design is the projecting gable of front elevation. The half timbered work with different designs in panels, form excellent frames for four steel casement sash. The side walls have been carried high enough to give the artistic touch occasioned by breaking roof for dormers, which are really dwarf affairs but very pleasing in appearance. The roof sweeps in a graceful line covering side porch. The front entrance with its gabled hood over arch forms a unit of rare beauty. The first floor casement window with its flower boxes is another picture spot. This design is by Arthur Bates Lincoln, Architect of Home Owners' Service Institute and the complete working plans in blue print form are shown on following pages.

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SECOND FLOOR PLAN



FIRST FLOOR PLAN

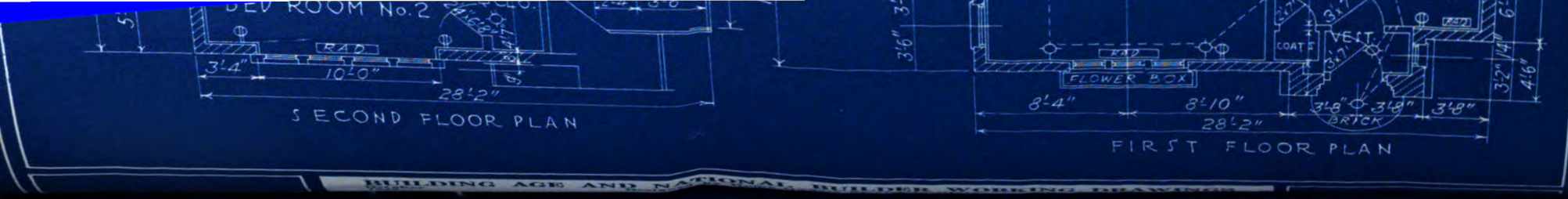
BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

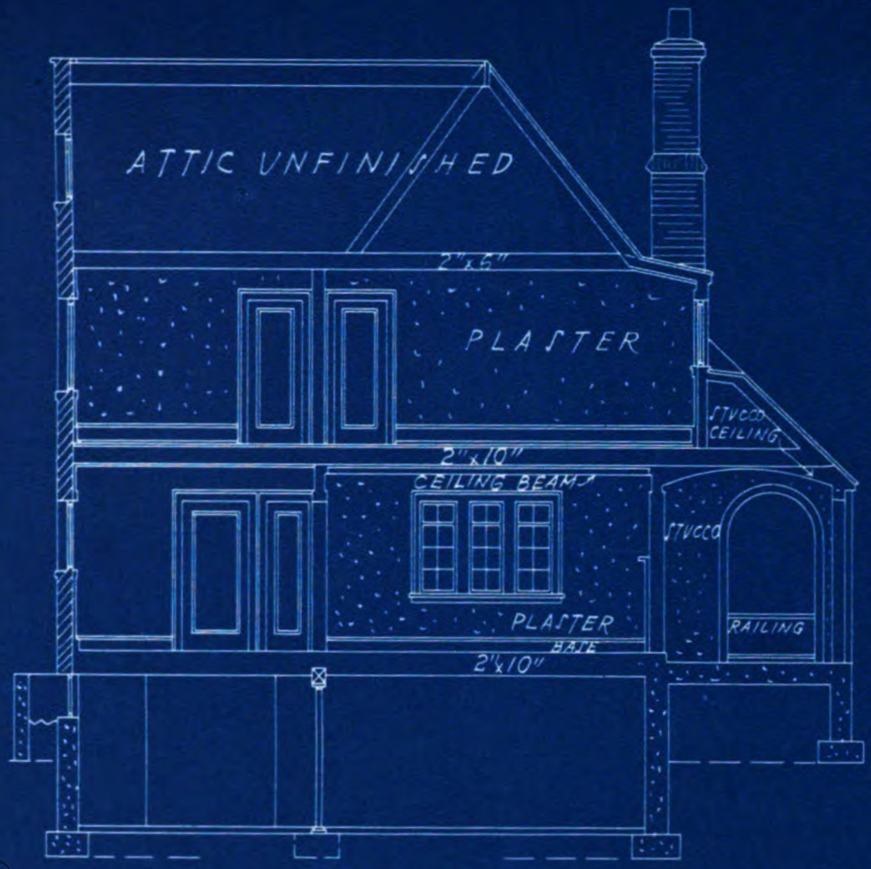
October 1926

Designed by Home Owners Service Institute
Arthur Bates Lincoln, Architect

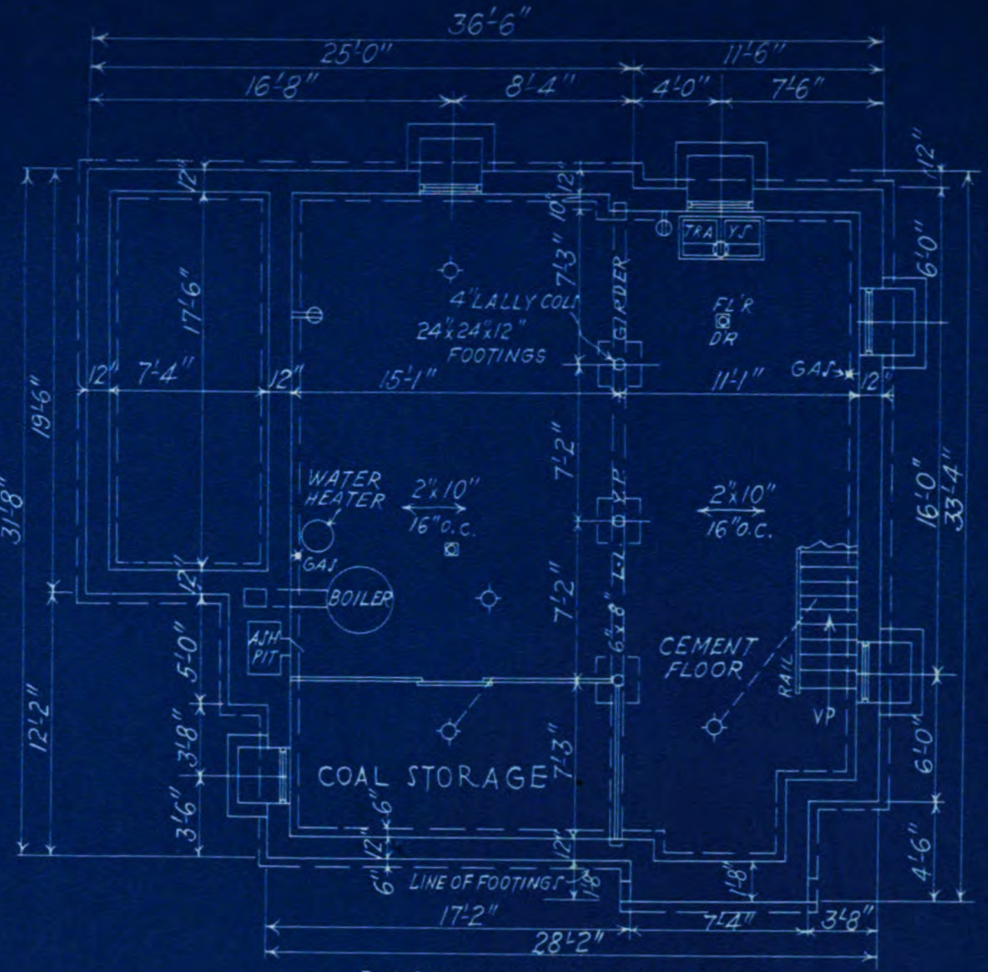
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CROSS SECTION



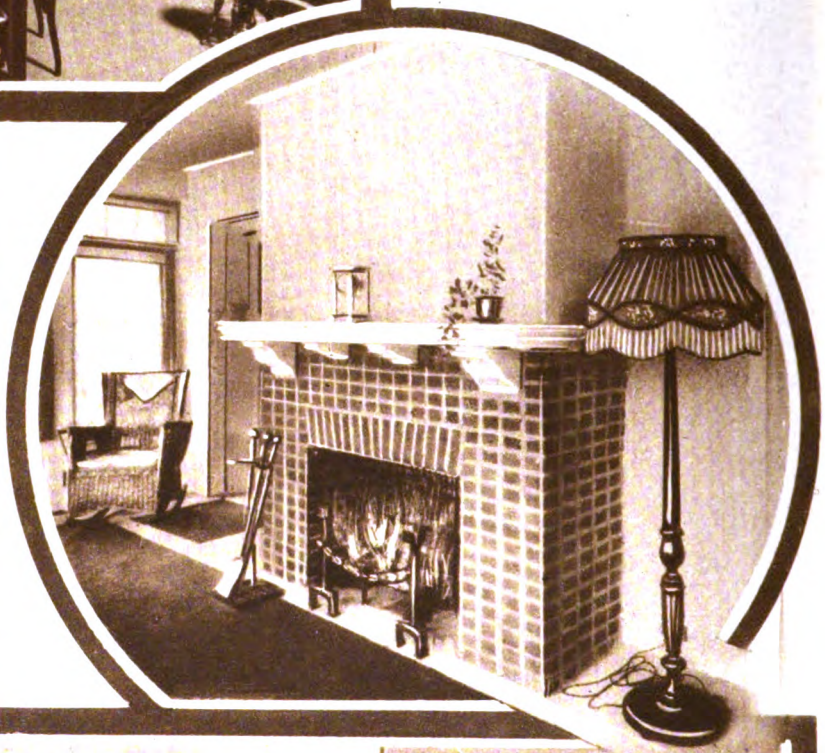
BASEMENT FLOOR PLAN

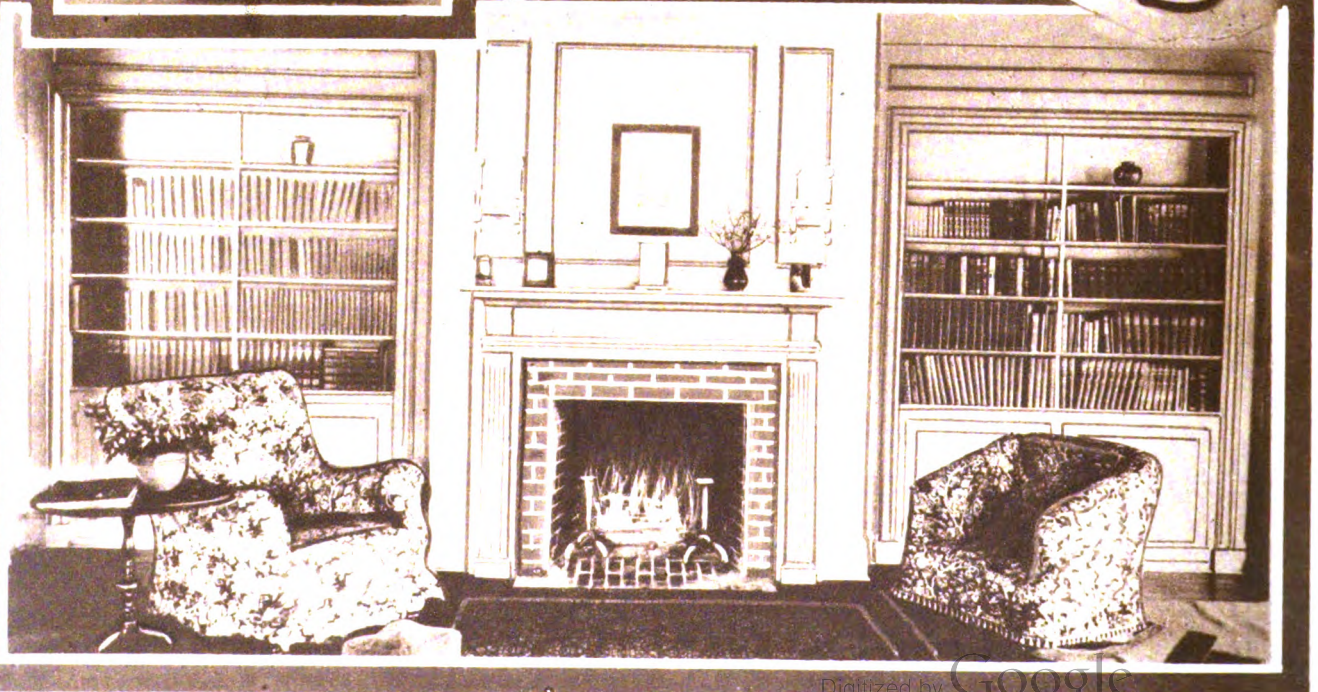
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Keeping the Home FIRES Burning









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Light your fire
and never fear
life was made
for love and cheer

Van Dyke

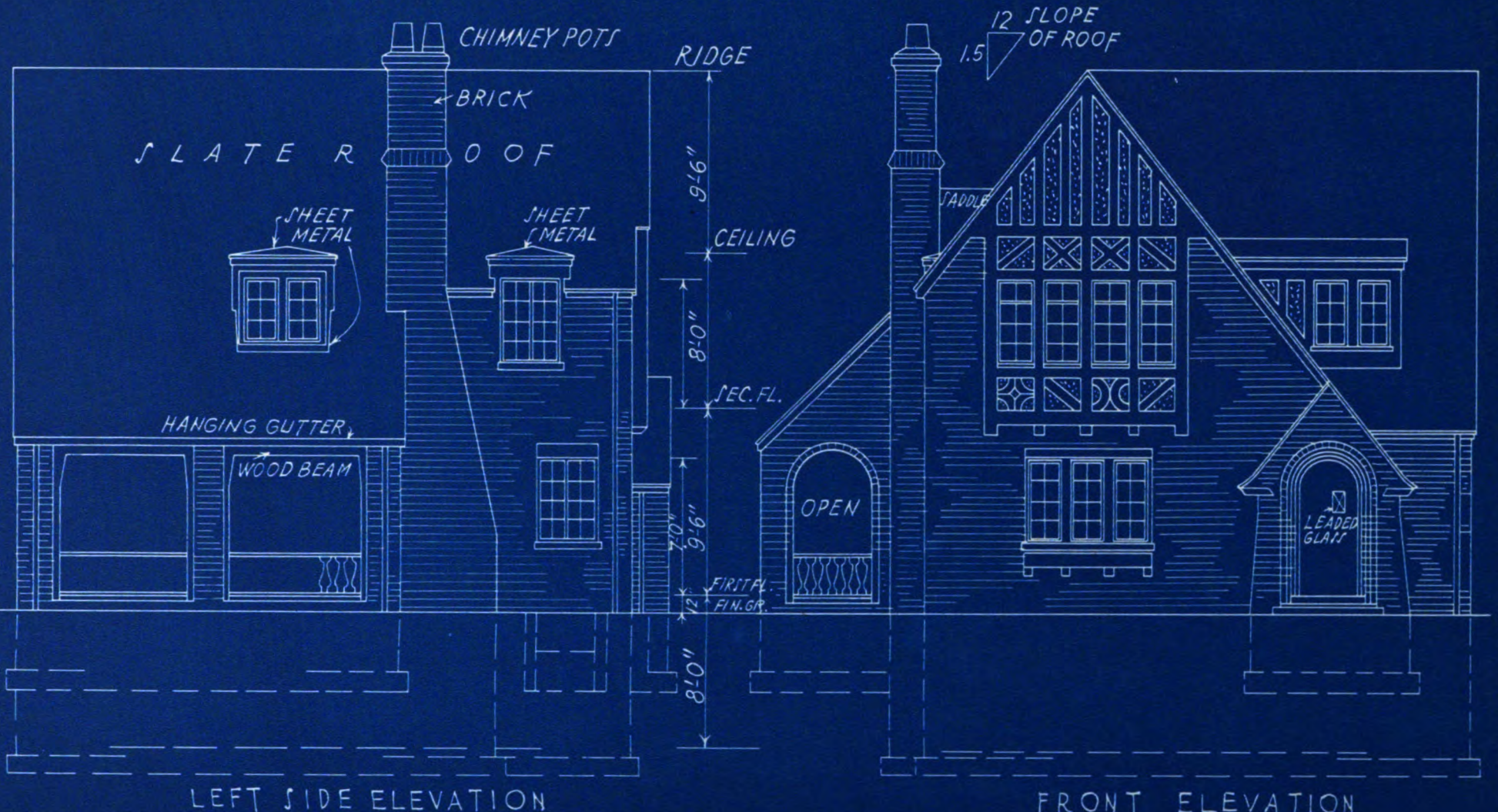


Where glowing embers
through the room
Teach light to
counterfeit a gloom

Milton



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BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

October 1926

Designed by Home Owners Service Institute
Arthur Bates Lincoln, Architect

Sheet No. 3 of 4

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LEFT SIDE ELEVATION

FRONT ELEVATION

BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS



REAR ELEVATION



RIGHT SIDE ELEVATION

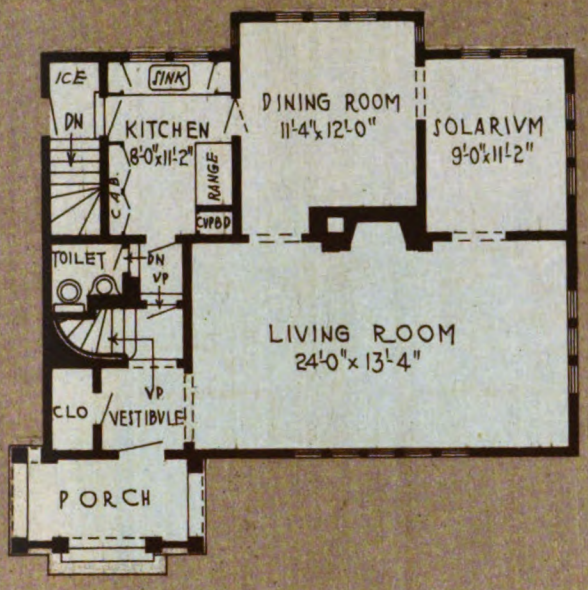
Building Code

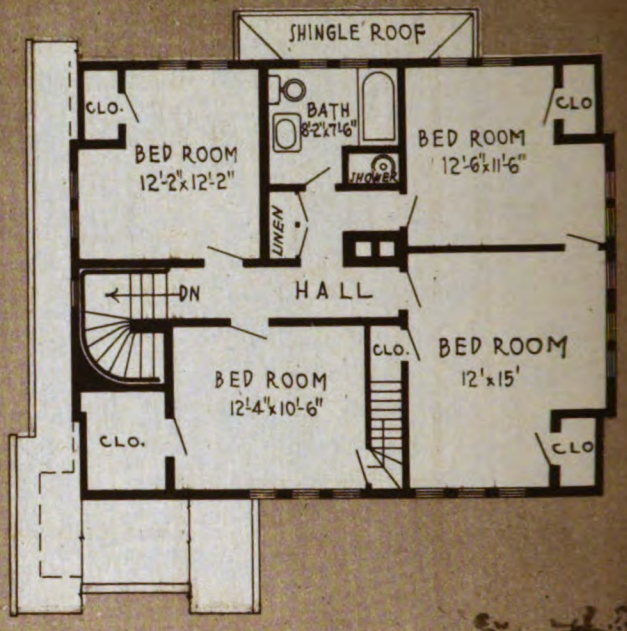
BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

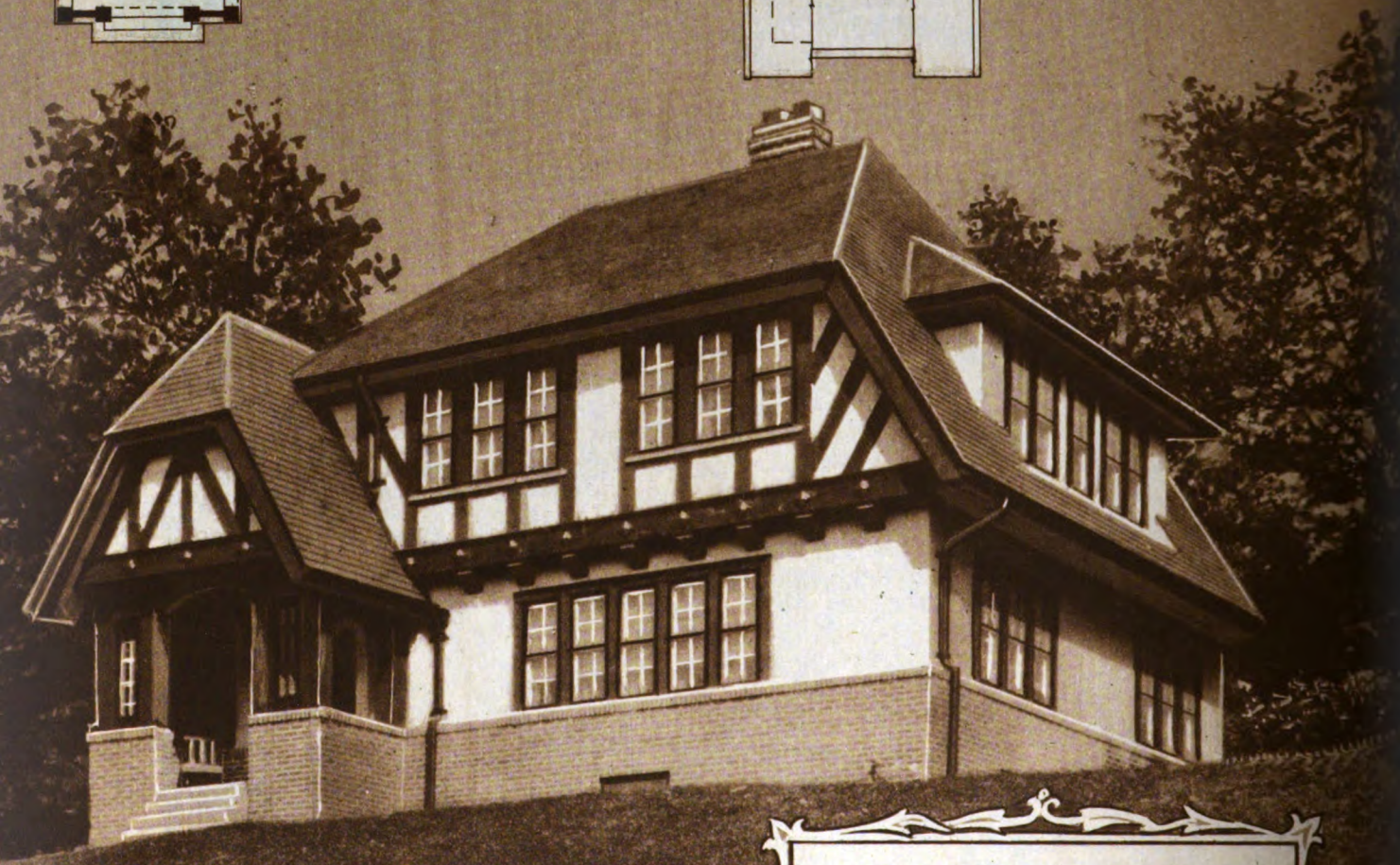
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Arthur Bates Lincoln, Architect

Sheet No. 4 of 4



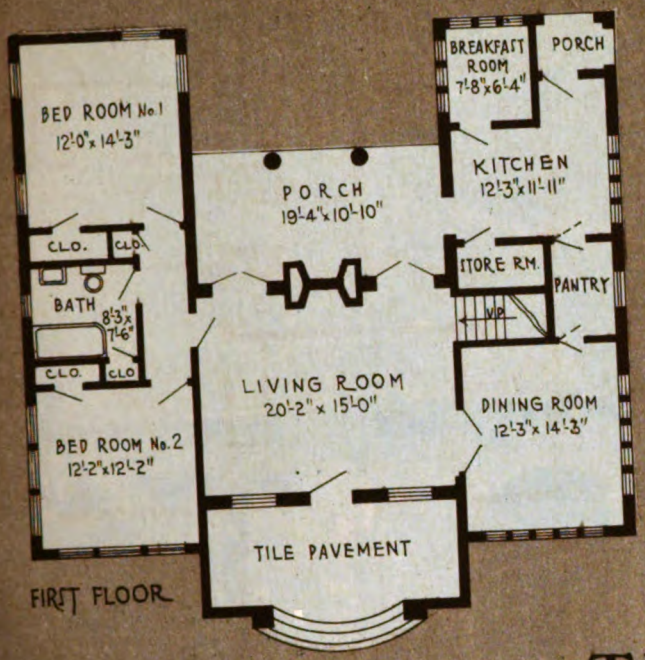


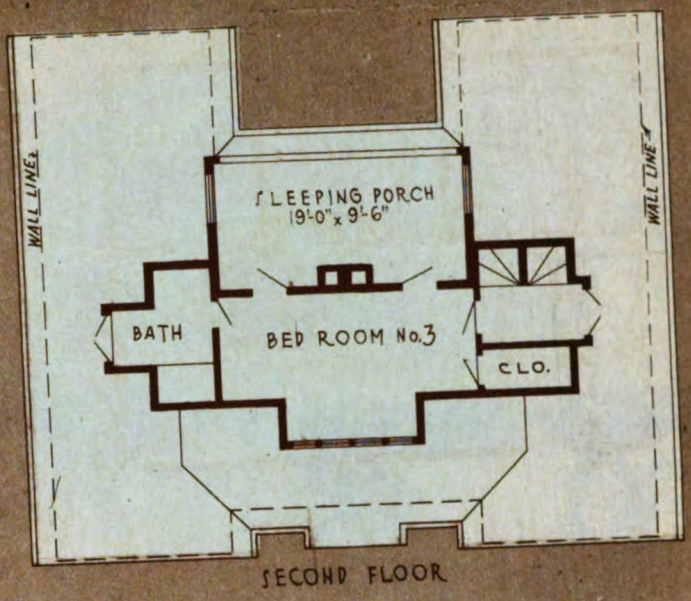


Crowning A Hill Site

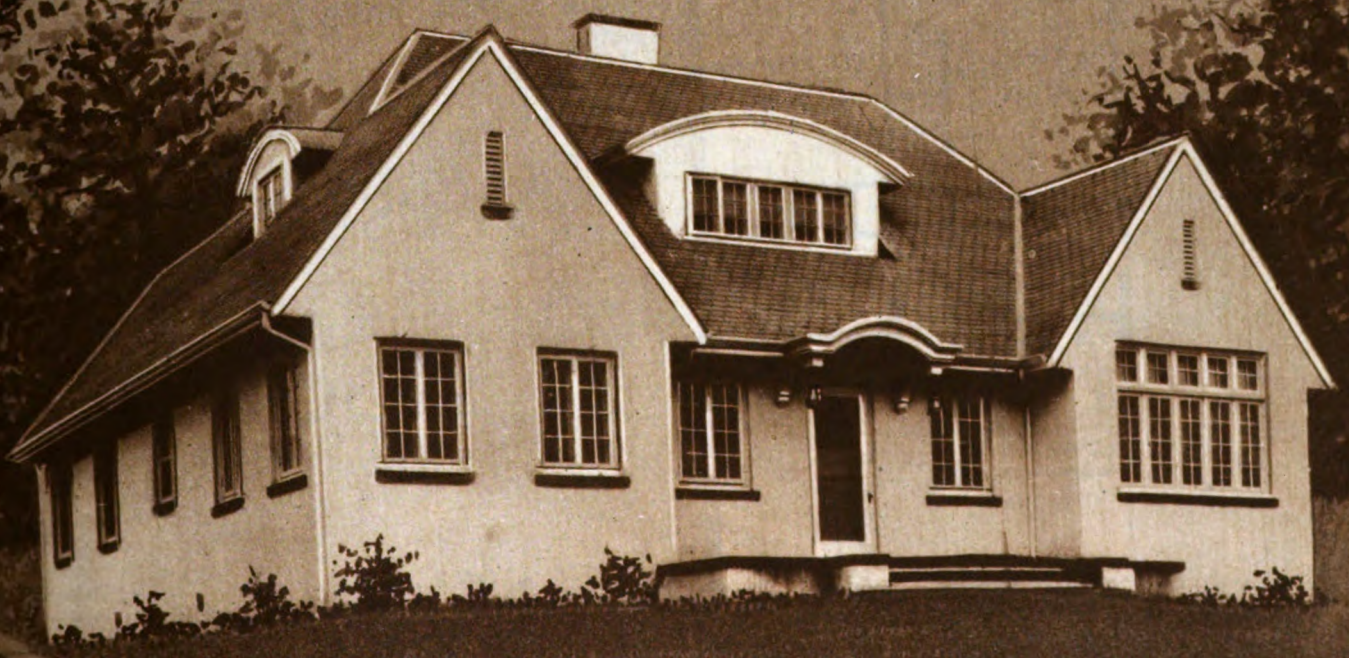
WHILE this is not a large house, its location high on the side of a hill, gives it a degree of importance that seems to magnify its size, causing it to appear considerably larger than its actual dimensions would ordinarily warrant. This house is located in Des Moines, Iowa and was designed by Vorse, Kraetsch & Kraetsch, Architects of that city. Its construction is of brick veneer and stucco on wood frame. Ornamental half timbered work embellishes the second story facade offering interest and variety to the composition. The entrance hall and the main stair is a compact, practical arrangement. The central chimney is more efficient and somewhat more economical than placed on outer wall.

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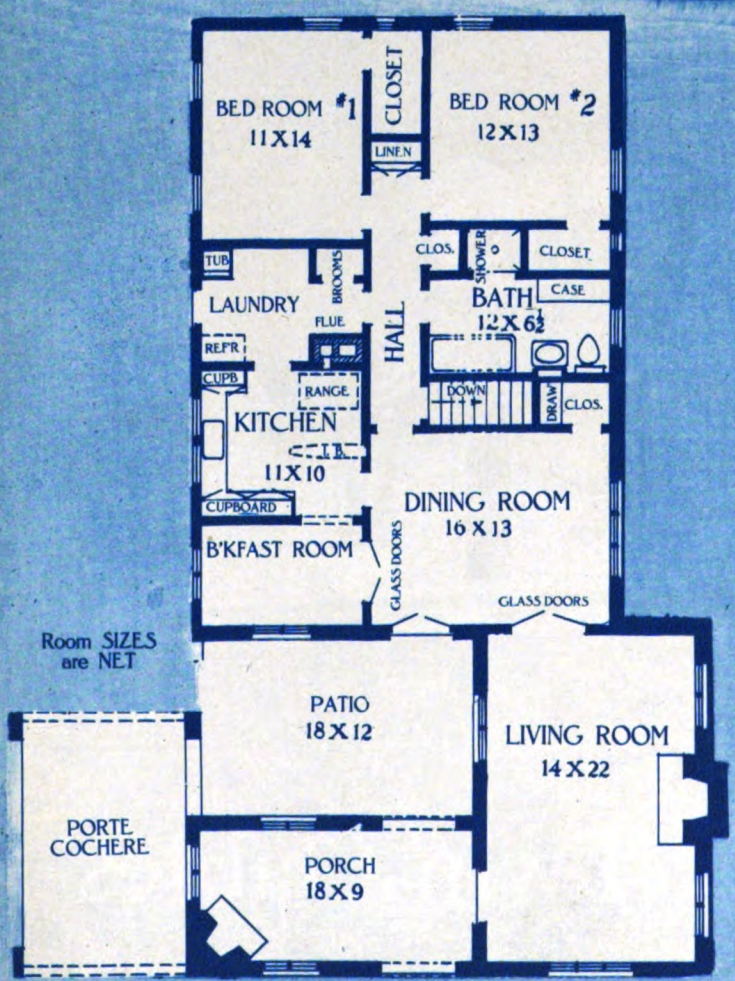
THE distinctly formal appearance of this home design is enhanced by its setting on high ground. The terrace in front, the curved roofs of dormers and entrance hood, help to carry out this effect. The floor plan offers an ideal arrangement for the southland, as cross ventilation is effected in all rooms. A large bedroom in the second story, together with a large sleeping porch, affords ample sleeping accommodations. This house of D. W. Spurlock built at Shreveport, La., was designed by J. O. Mitchell, Arch.



The House *of* Twin Gables

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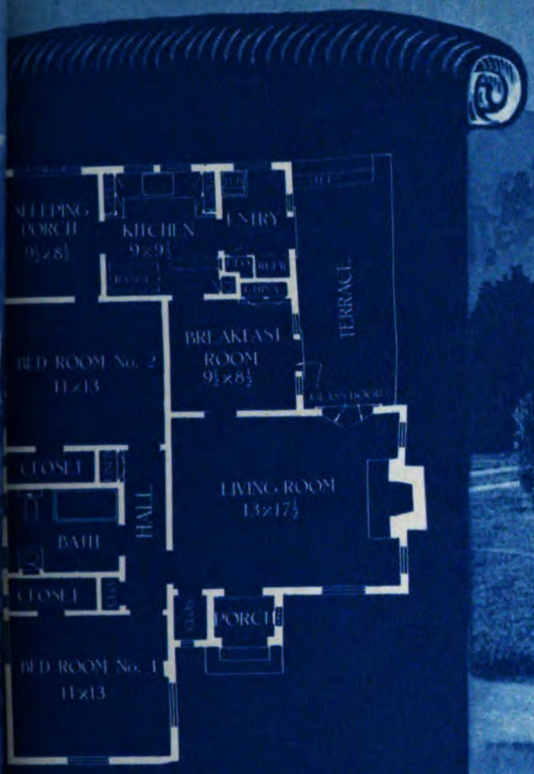




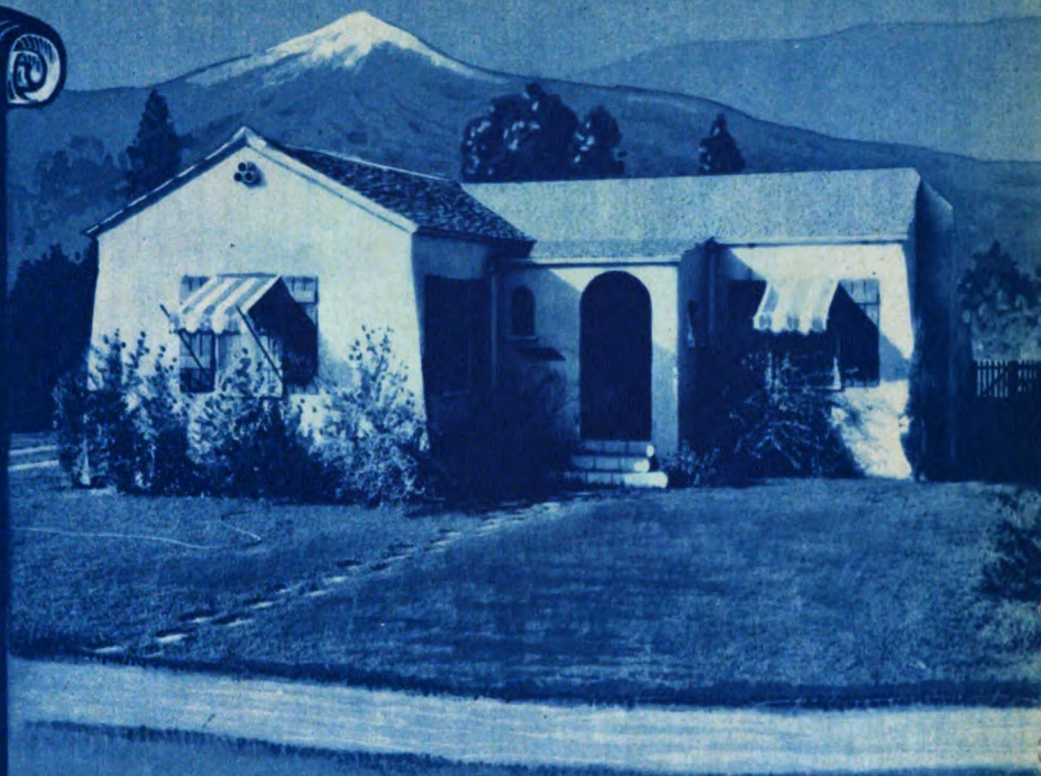
West of the Rockies

SOMETHING unusual is the enclosed porch of this small Spanish style house with an open fireplace making it an ideal outdoor living room. Immediately back of it is located a patio. The accompanying floor plans show the interesting arrangements of the interior. The construction is frame with outside walls finished in light cream stucco, the roof of red tile and the wood trimming in a grayish blue. The beautiful contrast of colors makes a surprisingly attractive composition. It was designed by E. W. Stillwell, Architect, of Los Angeles, Calif., and was built in that city.

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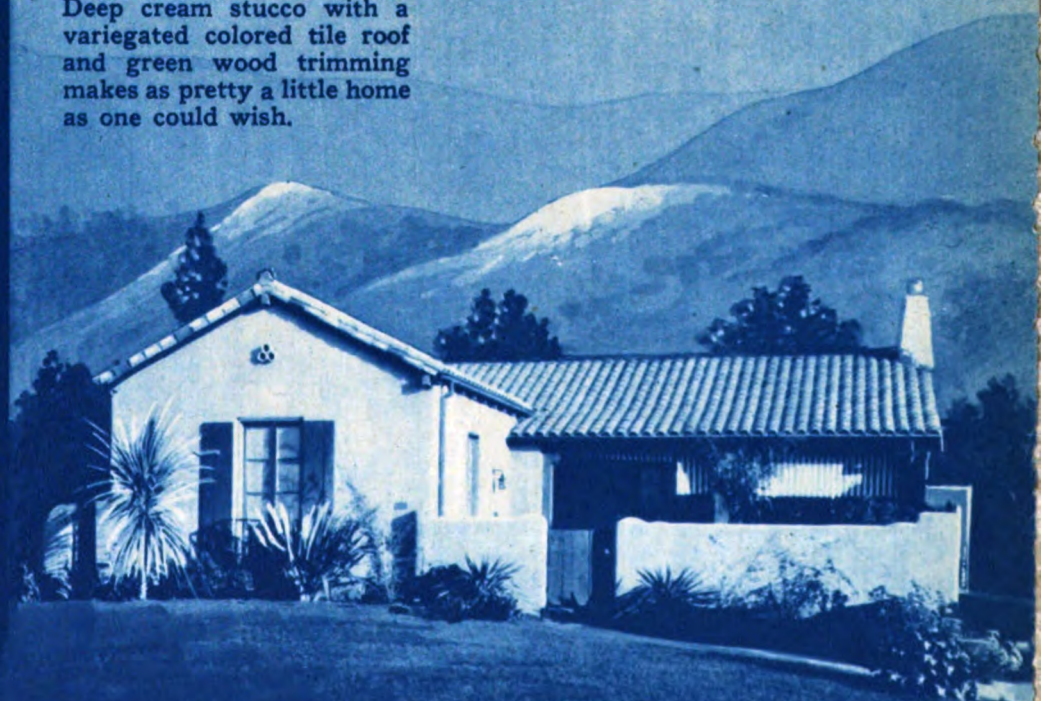




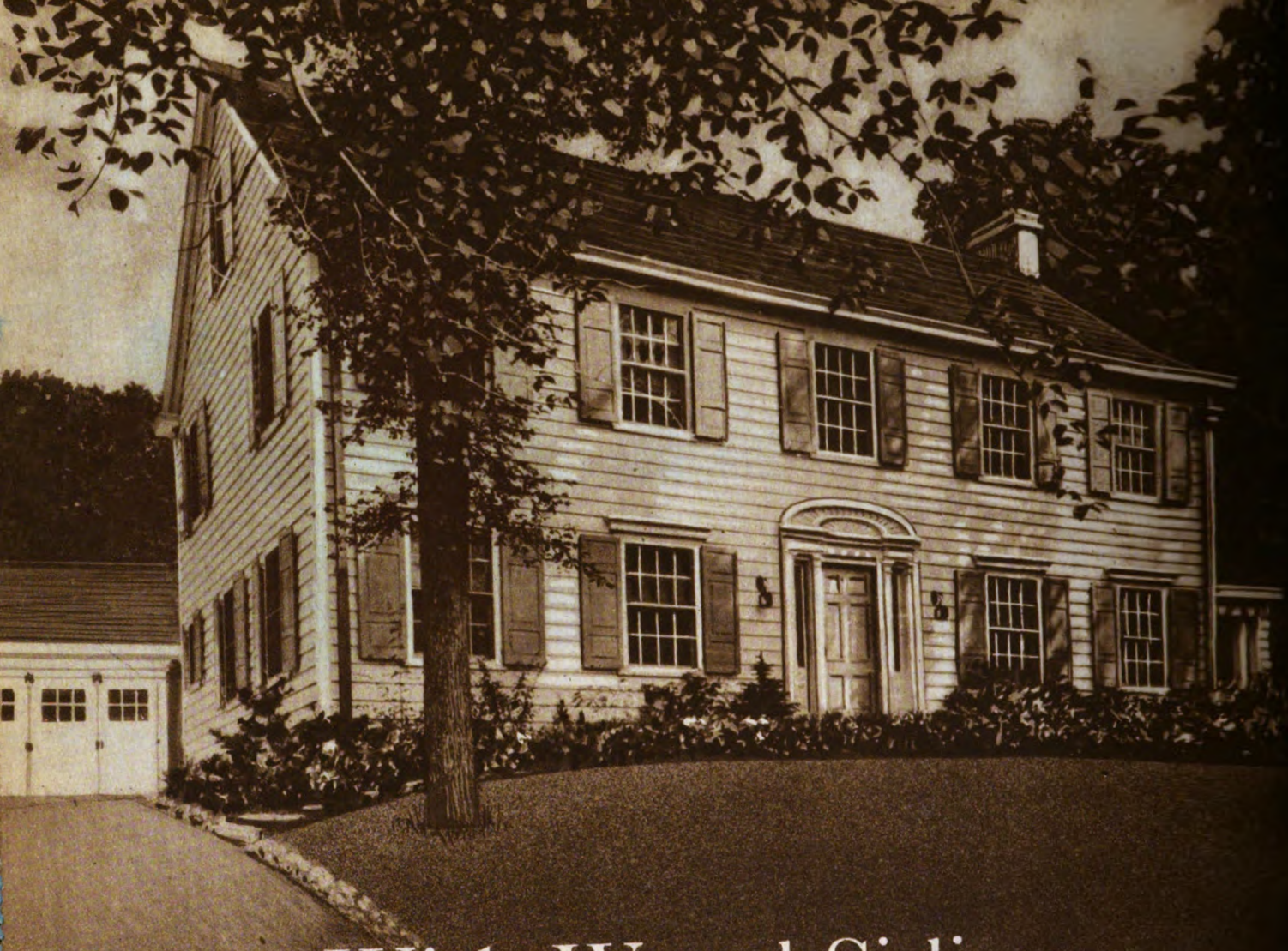


A LITTLE California house of bonafide Spanish style, shown here, possesses a delightful wall enclosed patio on the front with a covered and cemented floored porch across its back. The accompanying floor plan shows excellent and convenient lay out of rooms. Deep cream stucco with a variegated colored tile roof and green wood trimming makes as pretty a little home as one could wish.

A SMALL stucco house with many convenient built-in features and roomy closets. The stucco walls are in pure white, while the wood trim is done in a rich brown and its shingled roofs stained a grayish green. Both these houses are located in Los Angeles, California and were built from plans by E. W. Stillwell, Architect, of that city.

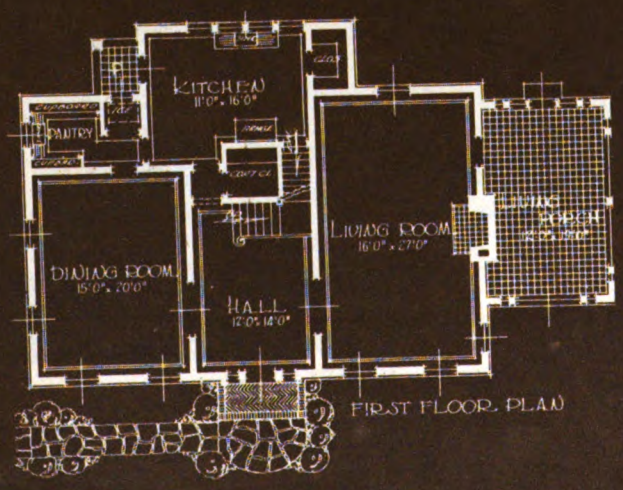


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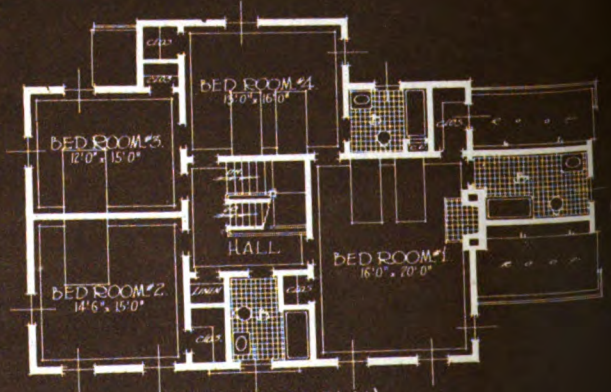


With Wood Siding –Dignity

A SIMPLE straight-forward New England colonial house that pleases because of its very simplicity. Large rooms compactly arranged about a simple stairway, reflect the same good taste as the exterior. This home of Harold S. Graham, Englewood, N. J., designed by R. C. Hunter & Bro., Architects. A house of this type goes well in a wooded setting where its white walls receive the shadows that flicker thru the foliage.



FIRST FLOOR PLAN

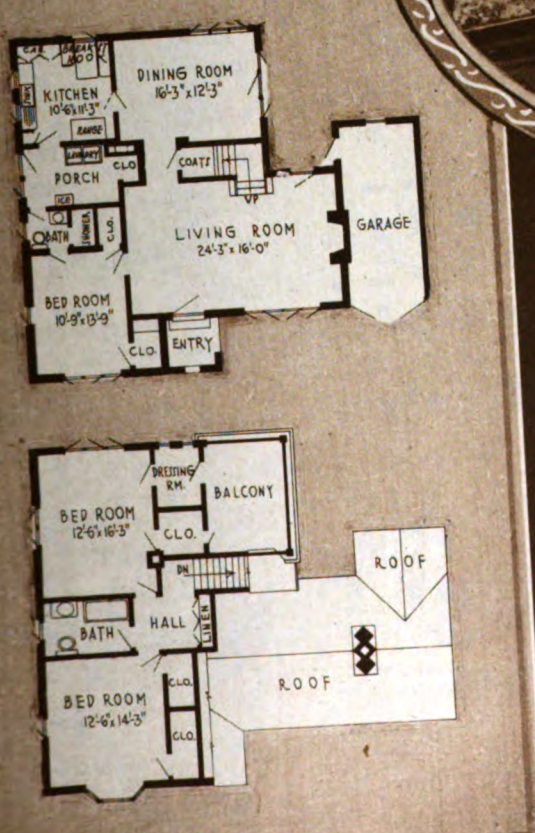


SECOND FLOOR PLAN

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rick Beauty





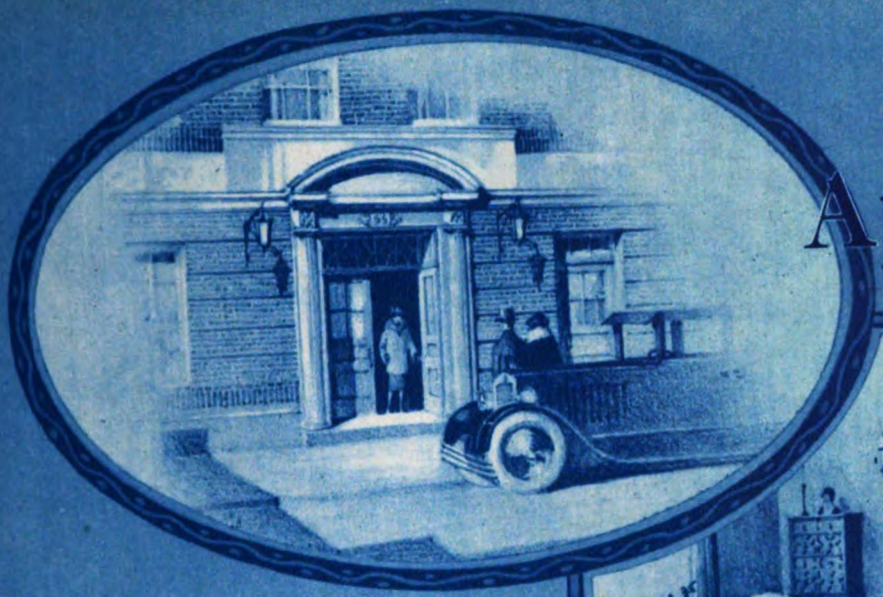
A DISTINCTIVE English type design built of common brick laid in Flemish bond. This home was recently built from plans furnished by the Common Brick Manufacturers' Association. Diamond leaded glass windows in different groups form interesting units, the whole crowned with wide exposed wood shingle roof, giving a thatch-like effect. The terrace is also laid in brick to match the building and extends across the entire front.

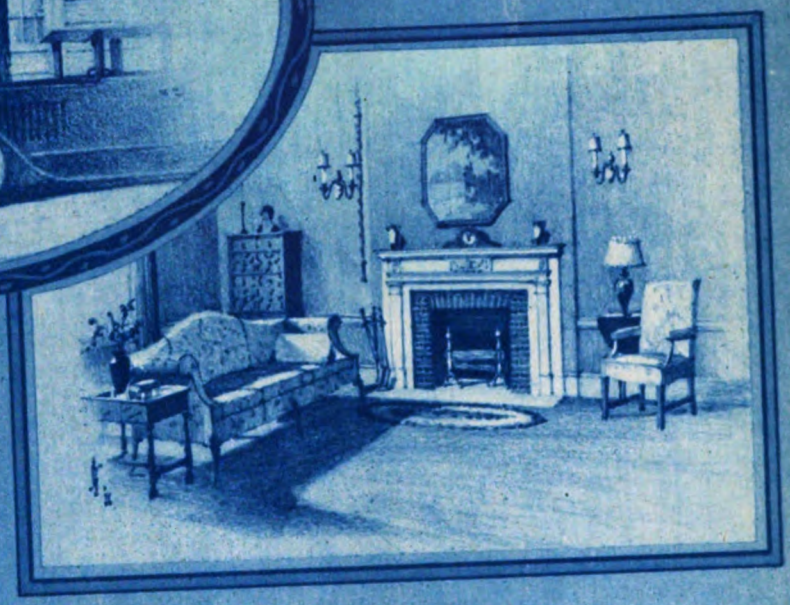
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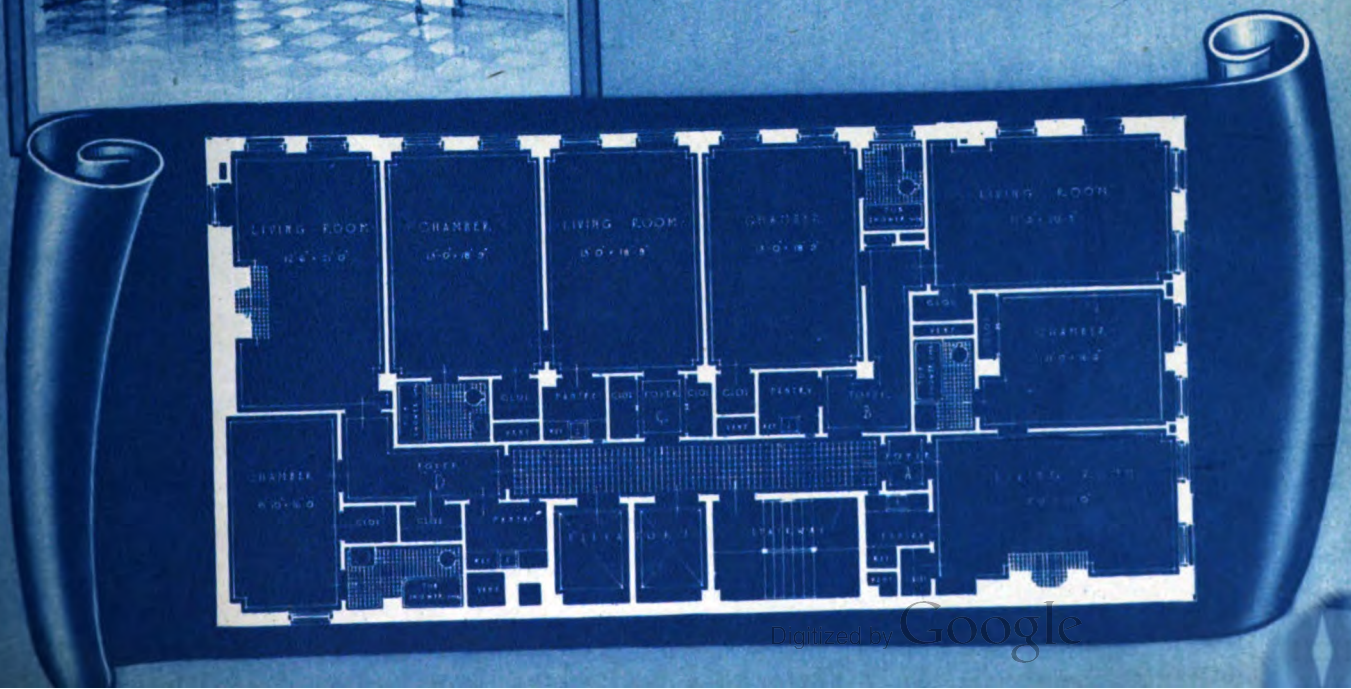
Small Apartments *of* Luxury



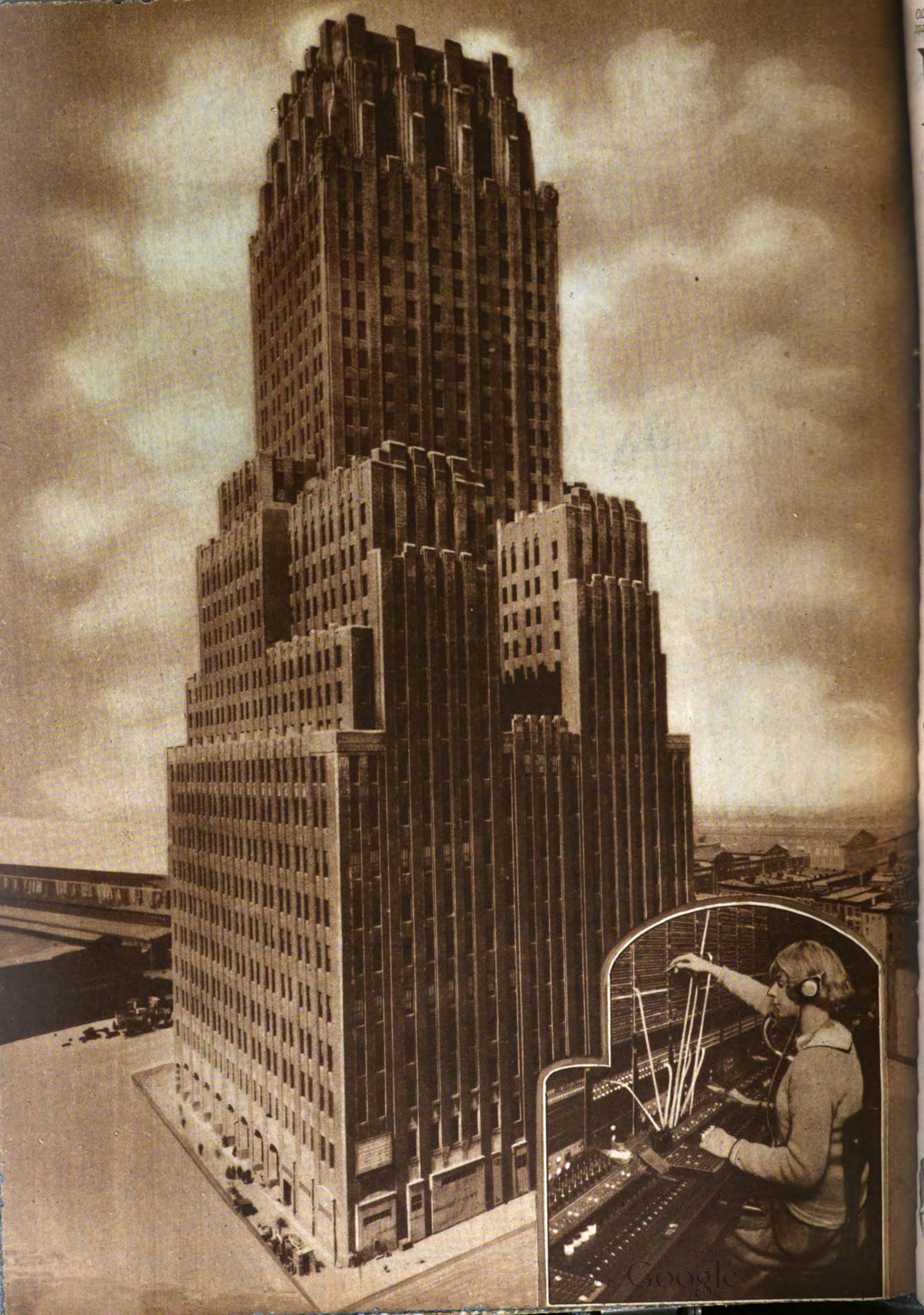




INCREASING seems to be the demand for small apartment houses containing every luxury afforded by modern building equipment. Here is one of New York's latest apartment house designs, differing a good deal from the large structure one would expect,—a small apartment house but containing every luxury and convenience that one expects to find only in the largest structures. Most of the individual apartments consist of but one or two rooms each, all with bath and serving pantries in which is included electrical refrigeration. This building was designed by Henry Ives Cobb, Jr., Architect, and built by Vellom Construction, Inc., Ruby Goddard, Supt. of Construction. It is known as 66 Park Avenue.



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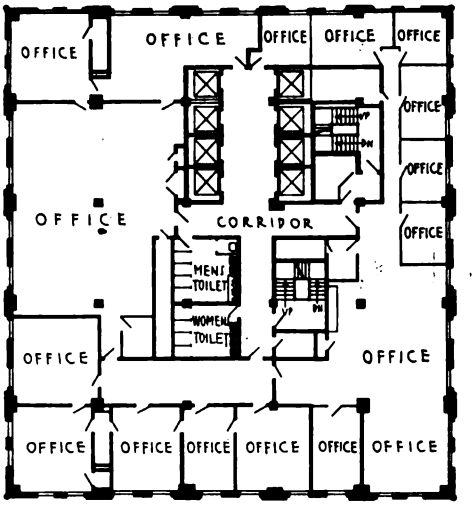
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New Telephone Quarters Unusual Building Feat

Architects
McKenzie, Voorhees & Gmelin

A NEW chapter has been written into the history of commercial buildings with the completion of the new 32-story structure of the New York Telephone Company. It is the largest building of its kind in the world, covering an entire block, bounded by Vesey, Washington, Barclay and West Streets. Some idea of its size may be gained from the proposed accommodations for 6,000 workers and in addition six downtown telephone central offices. For these workers 860,500 sq. ft. have been provided.

From the time the foundation work was started (June, 1923) until the building was ready for its first occupants, almost two and a half years elapsed. Foundation work alone covered a period of 14 months.



Above, 26th floor, typical plan for Tower. Below, offices on ninth floor

A 32-Story Structure for New York Telephone Co.

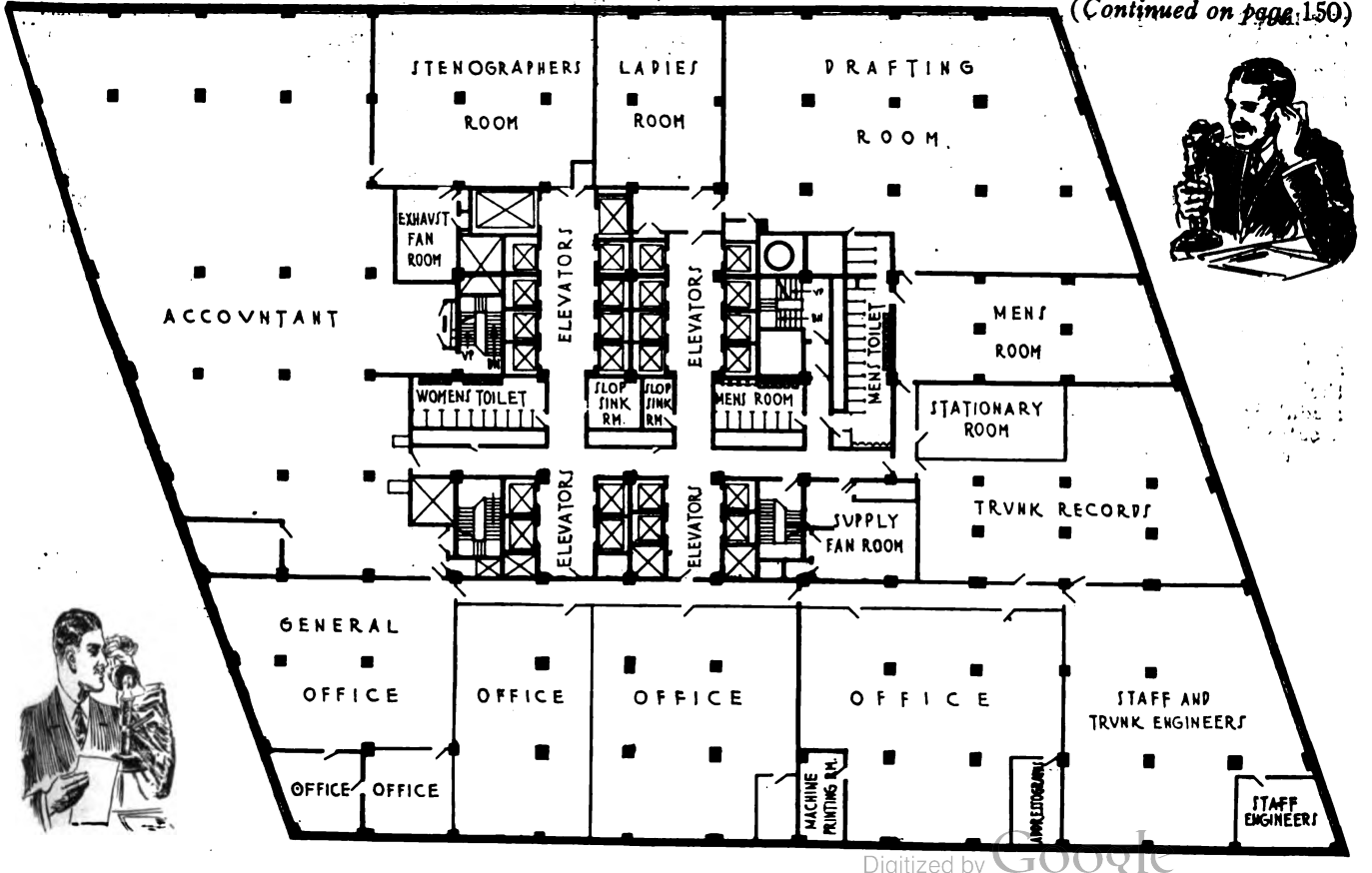
Builders
Marc Eidlitz & Son, Inc.
New York City

A detailed account of the construction progress and any comprehensive description of the building proper would be out of place here. The momentus task that the builders of this new structure have accomplished is best represented in totals of materials used.

For each main floor enough concrete was used to build a sidewalk 1½ miles long and 5 ft. wide. For steel girders and uprights over ¼ million rivets and 7,000 gallons of paint were used. Below ground 5,000 tons of steel were used and above ground 15,000 tons. To reinforce the concrete walls lining excavation work called for 600 tons of steel rods.

After completion of the structure the problem of transferring workers and equipment into the new quar-

(*Continued on page 150*)



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The Gold Medal Winners

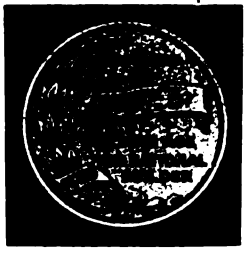
THE BEST SELLING



THE great attention attracted to our Best Selling Homes Campaign resulted in our receiving many entries, and to carefully judge each design on its merits, was no little task.

This work was undertaken by Col. Ernest McCullough of our staff, as Chairman and the decision is now made public. The names of the winners are given in the Honor Roll and the various prize winning homes are shown on the following pages, together with portraits of the winners.

Our whole aim in promoting this campaign was to publish a collection of home designs which have proved their saleability by public acceptance. No more interesting record of such houses can be found than that published in this issue. It is an object lesson in successful building sales psychology.



THIS illustration shows in miniature form one side of the gold medal awarded to the ten winners and engraved with their names. Each medal is mounted in a satin lined Morocco covered case



The Winners

卐

Barker Investment Company
Long Beach, California

卐

J. Alves Clore
Henderson, Kentucky

卐

Arnold G. W. Curdes
Fort Wayne, Indiana

卐

A. R. Eckert
Dallas, Texas

卐

B. K. Huntington & Company
Jamaica, New York

卐

Ray V. Keen
Ashland, Ohio

卐

McClure & Company
Kearney, Nebraska

卐

Lee L. Powers
Asheville, North Carolina

卐

O. W. Settle
Atlanta, Georgia

卐

The Welton Builders
Denver, Colorado



Such a collection of designs means much to every builder who is trying to erect buildings that will sell. There are certain elements that make a building plan popular. A study of the floor plans, and their corresponding outside and interior views, will prove a most interesting and profitable lesson to every one in the building industry.

We certainly are indebted to our many readers who have entered this campaign, as their hearty cooperation has made possible the successful conclusion of this campaign.

THE builders of America, as well as BUILDING AGE AND NATIONAL BUILDER congratulate the ten medal winners. Each receives a gold medal inscribed with their name, and in addition they also receive an engrossed certificate of merit; also a life subscription to BUILDING AGE AND NATIONAL BUILDER.

According to our terms to participants in this campaign, we also offered an additional award of certificates of merit to the next fifteen home designs considered next best. Names of these winners will be published in our November issue to-



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In Our Campaign to Find
HOMES IN AMERICA







gether with illustrations of their home designs.

The competition proved that the best selling home in America is one that contains not less than five nor more than seven rooms. This discovery merely checks a fact long known to men who sell stock plans; and editors of building papers.

THERE appeared to be about an equal number of homes with entrys or small halls and those into which one entered immediately into the living room. It was noticed, however, that in the latter houses there appears to be a tendency to turn the porch into a sun parlor and the sun parlor into another room. Apparently a very large number of people who bought custom built houses did not like to have visitors enter the living room directly. The porch being a poor substitute for an entry was enclosed and thus served as a sun parlor and combination entry hall. This may be a significant development and one worth looking into.

People like light and air so windows should be generous in size and numerous. People like to sit and regard passers-by so the best height for window sills appears to be between two feet and two feet nine inches above the floor, preferably the lower height.

The best selling homes are equipped with all that tends to lighten the labor of housework, which means not only all modern conveniences in the kitchen, but the shortest distance possible between kitchen and dining room. The breakfast or dining nook is becoming more popular and in many places has developed into a small room, for even the separate nook cannot make some people forget that it is in the kitchen, a place where many do not care to eat.

NO home today is without a well fitted bathroom and when it came to judging the exhibits sent in the choice was a hard one to make, for the men who sell homes long ago discovered what the prospective owners wanted. Bathrooms, dining nooks, fitted cupboards, were all to be found, together with short means of intercommunication, plenty of windows and doors so arranged that currents of air could traverse the rooms.

It was to be expected that with building magazines selling plans and with books of plans advertised

Conditions of this Campaign

A statement telling how many of each were sold, where they were located and the selling price of each, and a photograph of the house or houses which have proved to be "best sellers," together with the floor plans.

We recognize their courtesy in sending us material for publication in this way:

1—To the ten selected as "first" we shall present (a) a gold Medal; (b) an engrossed Certificate of Merit; (c) a life subscription to Builidng Age and National Builder; (d) a copy of the Book of Designs.

2—To the next fifteen (a) the Certificate of Merit; (b) a life subscription to the Magazine; (c) a copy of the Book.

3—To the next twenty-five (a) a year's subscription to the Magazine; (b) a copy of the Book.

4—To all others whose entries may be published, a copy of the Book.

5—No entrance fee is required.

6—The Editorial Board of this publication passed on the facts submitted and made the selections.





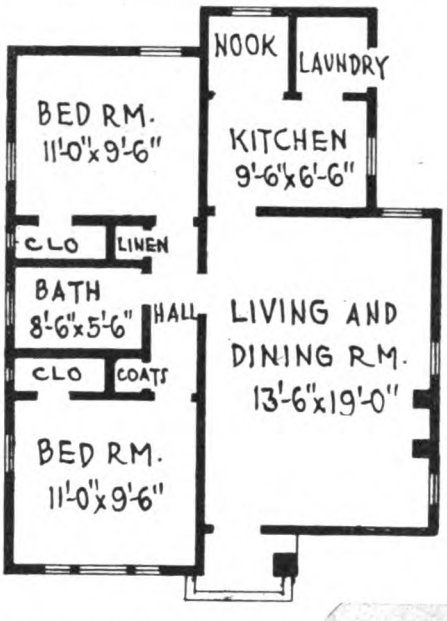


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A Group *of* Bungalows *from* Three Plans



FRED H. BARKER
Owner and General Manager



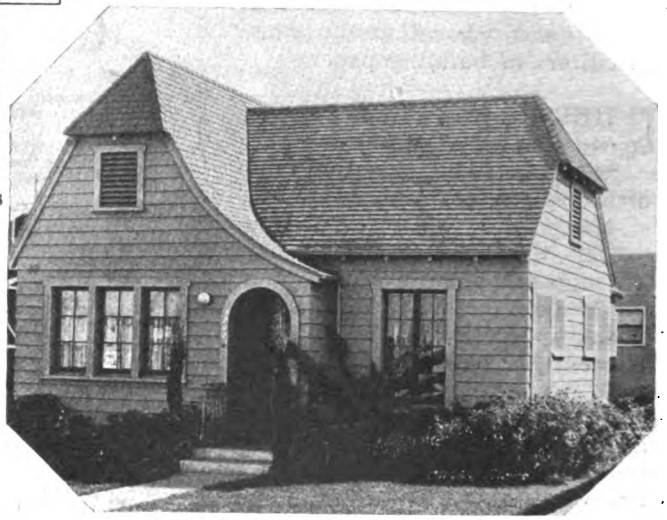
Submitted by Barker Investment Company

Long Beach, California

in popular periodicals, that there would be a sameness in design over the United States. This was not the case, however. While a general similarity governed, the cause being perhaps the desire to keep the cost down, when looked at geographically certain types appeared to be favorites in different sections. This may be observed, perhaps, when it is considered that no state received two medals, the ten medals going to widely separated localities.

Houses were judged by convenience of plan and with due regard for exterior appearance. Best selling did not mean always the largest number sold, but was judged rather on the basis of readiness of sale, especially in cities not greatly affected by the shortage of homes caused by the war.

THE floor plan is a model; combined living room, dining room, kitchen and breakfast nook, two bedrooms and bathroom. Also closets





OVER twenty-five houses from this plan have been built, with various exteriors—here are four types Even when built close together, sameness is overcome by difference in treatment. These Houses and garage sold for about $8,000, including property. Clapboards and stucco are both used effectively

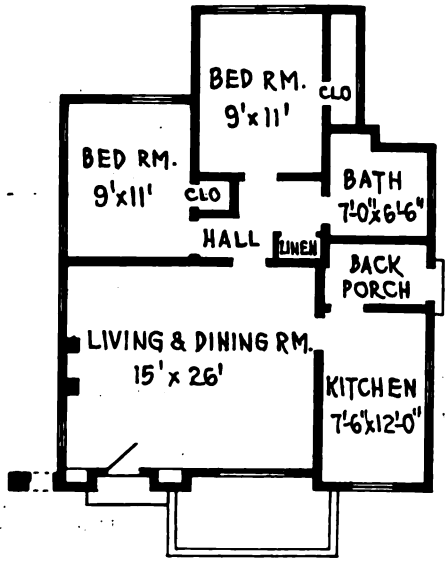




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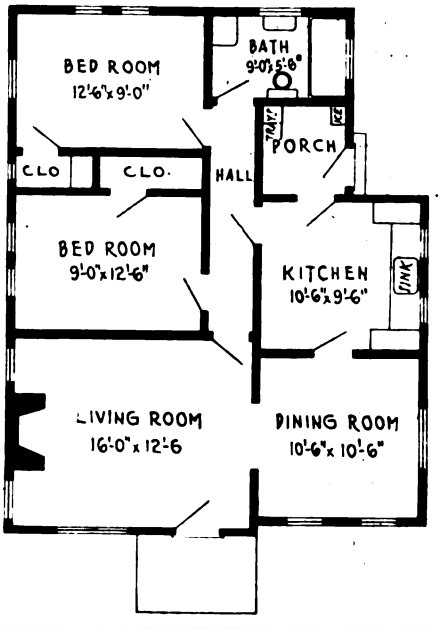


A CONVENIENT plan with some striking Belgian cottage type exteriors, two of which are shown above. Of this design over thirty-five houses have been built. These houses sold, with property and garage, for about $8,250

Builders of houses that sold in large numbers in some of our larger cities may see in the plans and elevations of some of the prize winners, strong resemblances to houses they sold. But the location on the lot and the space left between houses were taken into consideration also. In other words prizes were given to the best selling homes where homes were built and sold one at a time, rather than where such a shortage existed that families were forced to take what they could obtain upon short notice.

A builder by wholesale may justly claim to have sold a very large number of houses. Many may have been sold by high pressure sales methods; many may have been sold merely because of a great shortage of houses; many may have been sold merely because they were conveniently located to places of business of the purchasers, or to good transportation. None of these things were capable of being analyzed by the judges in the contest. No "Hobson's Choice" method of purchasing could be taken into consideration.

The best selling homes were judged on the basis that there was at all times the closest sort of cooperation between builder and purchaser. The prospective purchaser is seldom an expert in looking over plans and making a selection from them. He may "Know nothing about plan drawing but he does know what he wants," so, for him other homes served as models.



The layout and the conveniences installed appealed to the purchaser and he went over certain houses with the builder and suggested minor changes. To satisfy the desire for individuality in personal belongings that is inherent in all people, clever builders varied the exteriors of houses the layout of which suited prospective buyers.

The matter resolved itself quite naturally into that of plans. In other words, real homes into which went some of the personality of the owner. Houses may have been sold in quantities but homes are matters for careful consideration, careful consideration of ways and means, careful consideration of the fatigue of the housewife, careful consideration of the comfort of all those who would have to do work around the home, careful consideration of each member of the family as to placing of personal belongings and the view from a window, personal consideration of the comfort of the family as a whole.

It involved the question of a porch or a sun parlor, or both, as well as

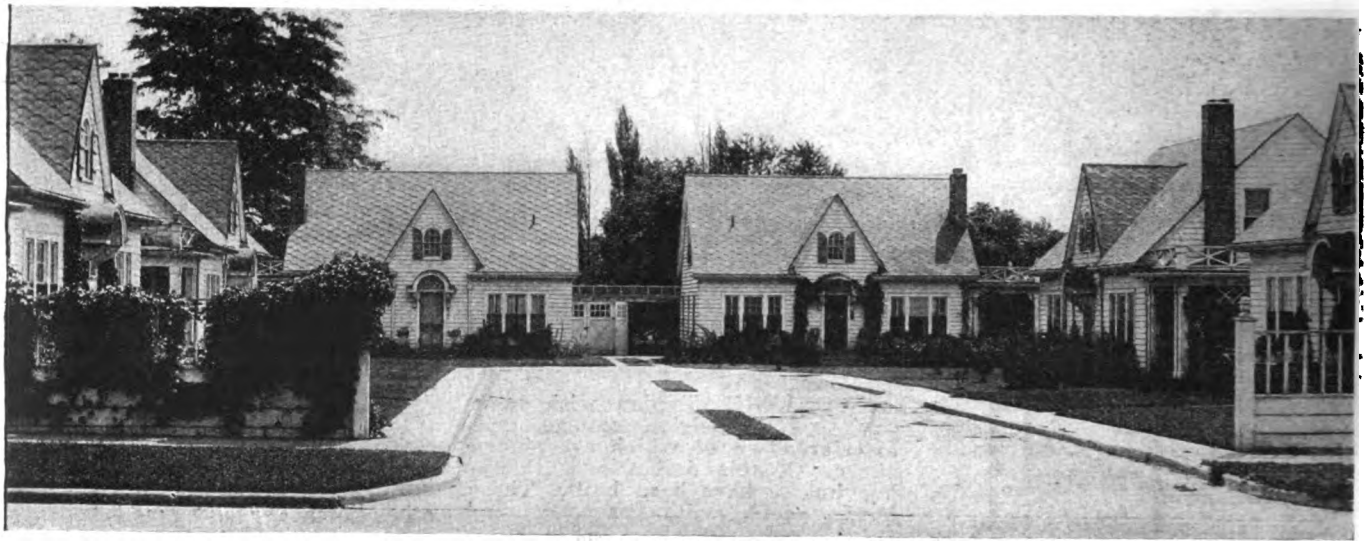
(*Continued on page* 125)

A SOMEWHAT larger design, which sold for about $11,000 complete with garage, property and underground sprinkling system. Over thirty such houses have been sold, the exteriors being of course varied slightly in each particular case. Two variations are shown here





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J. ALVES CLORE

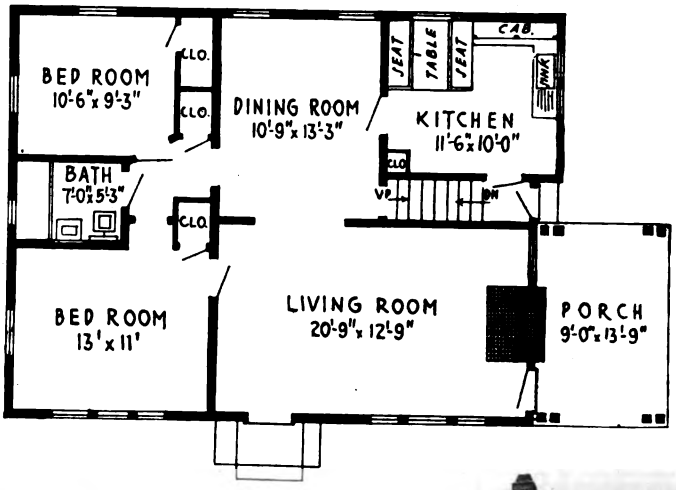
Group *of* Six Homes *from* One Design

Submitted by J. Alves Clore

Henderson, Kentucky

MUCH has been said and written about how to avoid monotony by having exterior of all houses different even if the same floor plans are used. Here we have an example, however, where beauty has been obtained by repetition in a group of six houses of identically the same design arranged in court fashion that presents a decidedly artistic appearance without monotony even though the houses are of the same exterior design. This result has been obtained by the liberal use of space, no crowding of houses close together—so frequently a defect in court designs. Here is a very neat clapboarded house with conveniently arranged floor plan that was sold for $5,400. A fence separates the court from the road.

A VERY cleverly arranged floor plan consisting of five rooms and bath with stairway to attic



A VIEW of the living room and an enlarged photograph of one of the houses showing the details more clearly





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B. K. HUNTINGTON





CLARENCE OLSEN

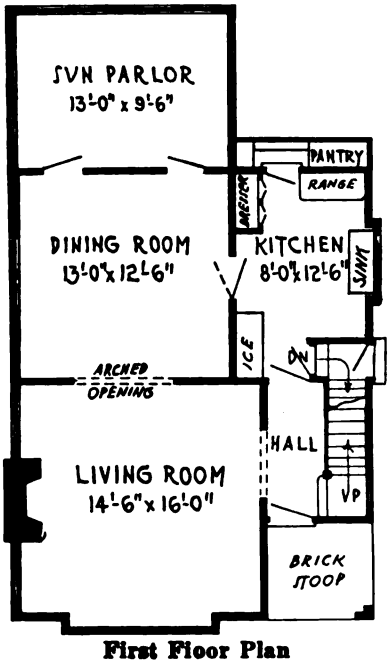
English Design

Submitted by

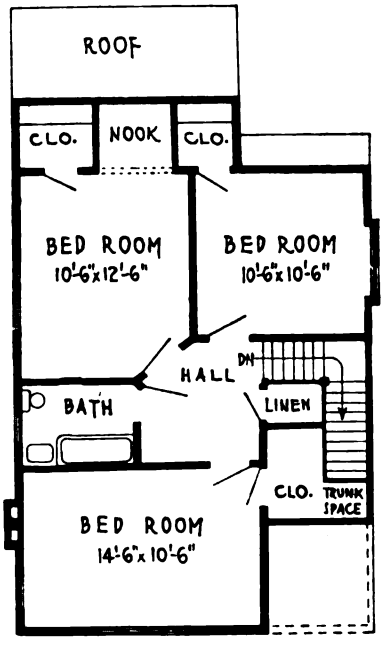
B. K. Huntington & Co.

Jamaica, New York

HERE is a very interesting contribution of a two-story house in the English style now so popular. Its construction is frame covered with metal lath and stucco, the upper story being oranmented with half timbering. The builders of this house make a specialty of only erecting one house of its respective kind. In this way, obtaining a variety that is demanded in most locations. As this particular house sold immediately on completion, it is one of the best selling homes. Various built in features made selling easy. These comprise a good looking bathroom with walls tiled 6 feet high and floor in black and white one inch square tiles, with built in fixtures, shower bath, etc. The kitchen walls are also tiled and fitted with one piece sink and drain board, gas range, etc. One of the bedrooms contains a wall safe. Each feature was a selling point that needed no talking about. Cost of construction was $9,500, exclusive of lot.

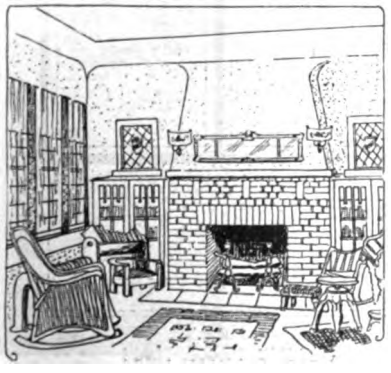


First Floor Plan



Second Floor Plan

Sketch of Living Room Fireplace





View of Stairs from Living Room

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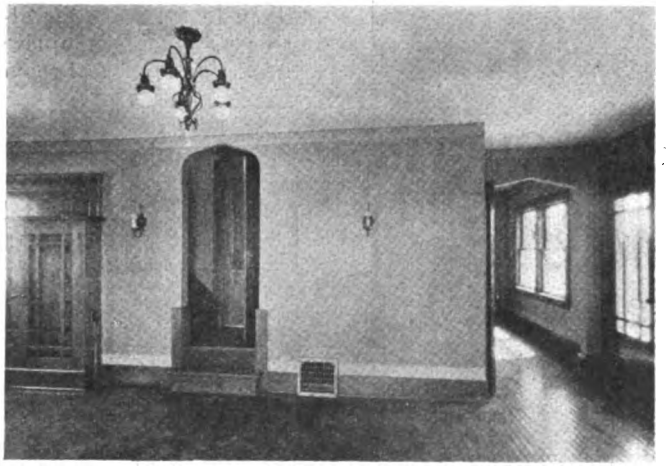


A Group *of* Comfortable Homes

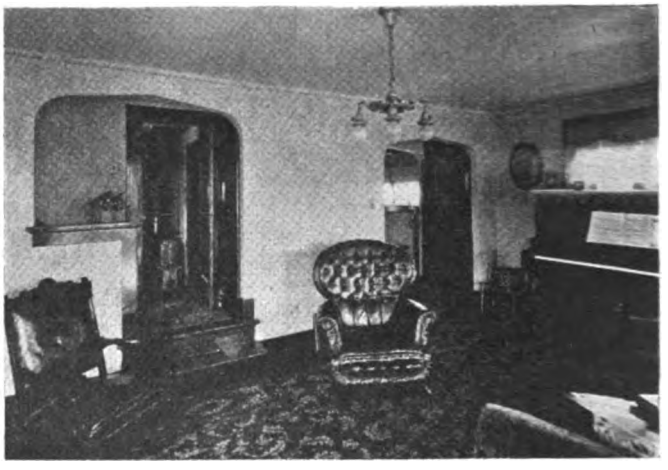
With Several Variations of Exteriors

Submitted by A. G. W. Curdes

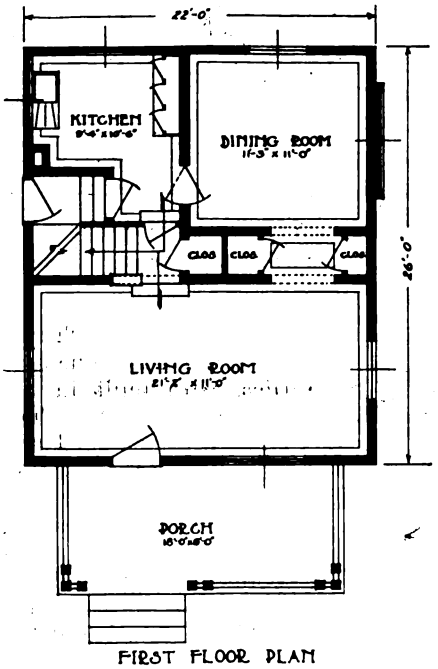
Fort Wayne, Indiana



Living room in one house. This picture was taken before the house was occupied



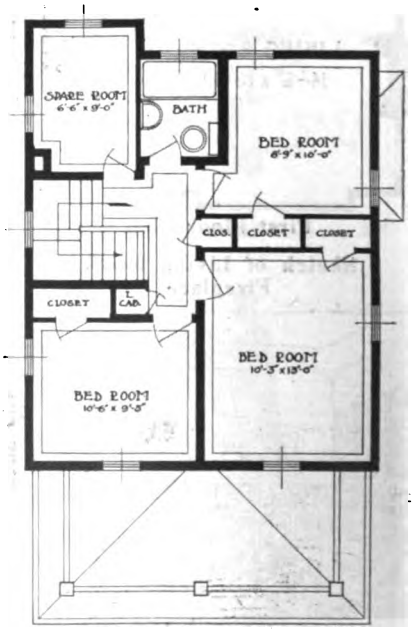
Living room in another house, showing slight modification of wall treatment



FIRST FLOOR PLAN



ARNOLD G. W. CURDES



SECOND FLOOR PLAN

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A close-up view of one of the houses carried out in the Prairie style of architecture

(*Continued from page* 121)

other things, so numerous in fact that one cannot help but be surprised at their number in so simple a thing as a structure consisting of four walls and a roof.

The plan after all is a primary matter in the designing and building of a home. Elevations are but secondary yet in looking over the large number of plans and photographs sent into this competition the judges were struck with surprise to see identical floor layouts in homes having very plain, almost ugly, exterior appearance. It proved that training in architecture is a sound basis on which home builders should work.

Almost invariably the men who had built but few houses were those who had little appreciation for beauty. They were "practical (?) men." The best appearing houses were built by men whose business was growing. With experience came appreciation about differences that exist in people and also of the fact that every dollar spent reasonably on looks greatly increased the sales value of a house.

There is a limit and this limit is commonly known as "gingerbread." Some excellently planned houses were not good sellers because the builders lacked aesthetic training and tried to satisfy a natural demand for beauty by overloading exteriors with ornament. Ornament is not always beautiful, plain exteriors are often satisfying. It is puzzling many times to men lacking a fine sense of aesthetic values to see what they call "plain



Dining room in one of the houses showing archway leading into living room

Cozy Interiors Always Take The Eye of the Prospect



Living room in another house. Here a dividing wall at stairway has made another room possible, which is used in this case as a sun-parlor

looking houses" sell fast while their houses, often very well built, go begging for purchasers.

One important point is to fit the right house in the right location. Do not overbuild nor underbuild. A $5,000 house is out of place in a locality where $25,000 houses are the rule and likewise a $25,000 house will be a very poor seller if built amongst $5,000 neighbors.

To have a house just a little better than its neighbors is good. Real design costs but little more and a few added interior features makes selling easier—$300 worth of the right kind of extras easily adds $500 to the selling price.



ANOTHER close-up view of one of the homes in this interesting group. Wide and narrow clapboards give a pleasing variation. The houses vary from $6,100.00 to $6,800.00 in selling price, according to the design



VIEW in bathroom showing type of fixtures. Tile floor and walls, metal medicine cabinet, etc., make a model bath room

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Two Brick Beauties

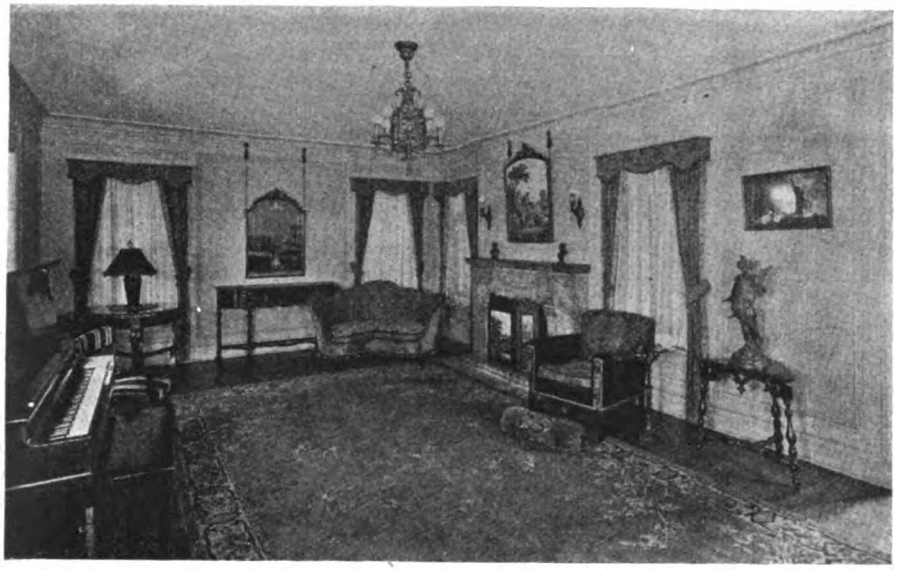
Submitted by

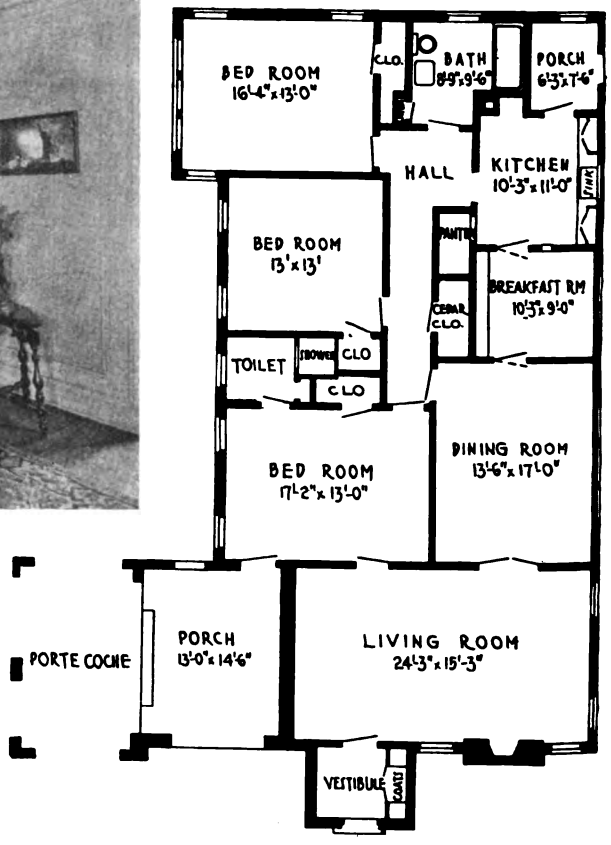
A. R. Eckert

Dallas, Texas



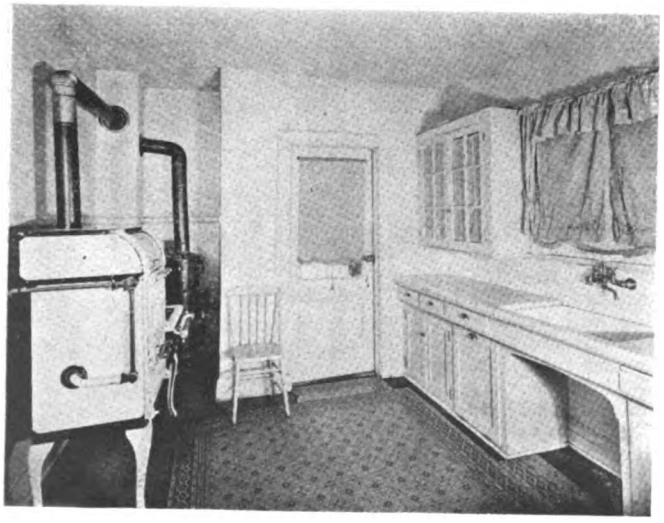
HERE is one of the brick beauties showing its exterior of pressed brick, while below is given a view of the living room of this particular house. Alongside is the floor plan. Cost, $11,250





The ten designs of homes shown here give a good idea of what the public wants. These houses were neither overbuilt nor underbuilt, they fitted admirably in their respective neighborhoods, but they all contained some features that made them stand out from amongst other houses. They had the right appeal to the tastes and pocketbooks of prospective home owners they were

THE two pictures below and on opposite page show four interesting interior views of these two houses. First is the kitchen, next breakfast nook, third front bedroom, and fourth a dining room view





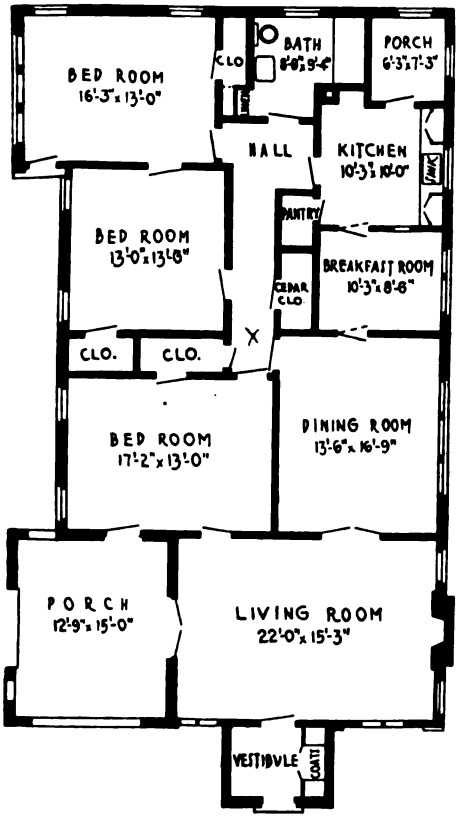
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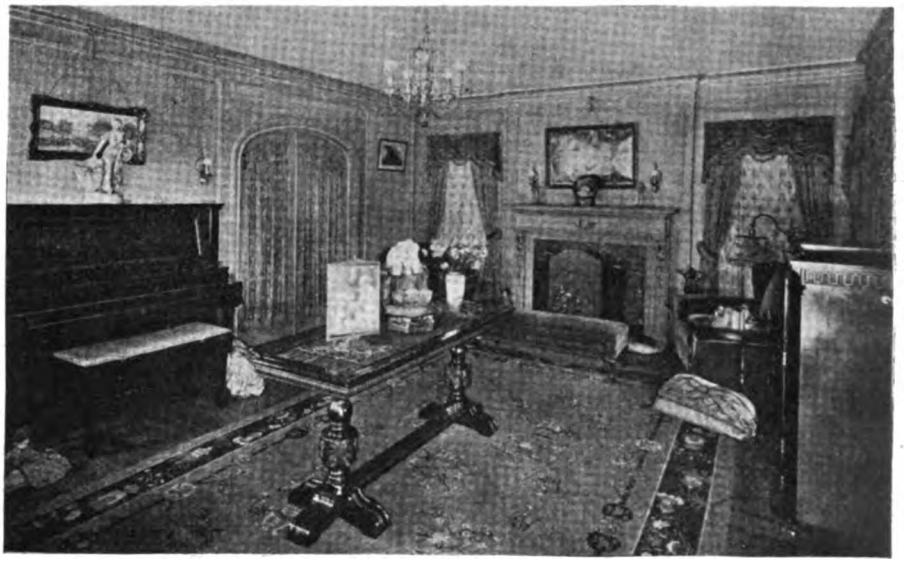


A. R. ECKERT



A MODIFICATION both in exterior and floor plan of the design shown on opposite page. Below is shown its living room. The big change, of course, is in location of open fireplace. Cost $11,500.





meant to attract. That they succeeded is evident by their quick sale.

The test, after all, of whether a house will be a good seller or not is its quick sale. There is no profit to the builder in having a row of houses, no matter how good they may be, if they stand for months waiting for buyers. The interest charges on the loan quickly add up and soon eat away the expected profit. A very safe rule to follow in building for resale is to see what houses have sold in a like vicinity, then follow along in their lines.

In our next issue, we will announce the names of the fifteen Certificate of Merit Winners and will also publish their prize winning designs. The publication of these va-





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rious house designs will show our readers what has proved best in the selling line in various communities.

The materials used in the construction of these houses vary. Clapboards, wood shingles, stone, hollow tile, brick, stucco, etc., all have been selected by builders of good selling homes. There is no one material that sells better than another. In many cases, combinations of these materials have made the right appeal. Among the types of the prize winners, there are bungalows, 1½ story, 2 story and 2½ story detached houses, so there is no one form of house design that meets with universal approval.

There is also no particular type of architecture that appeals, each home owner has his own individual taste.

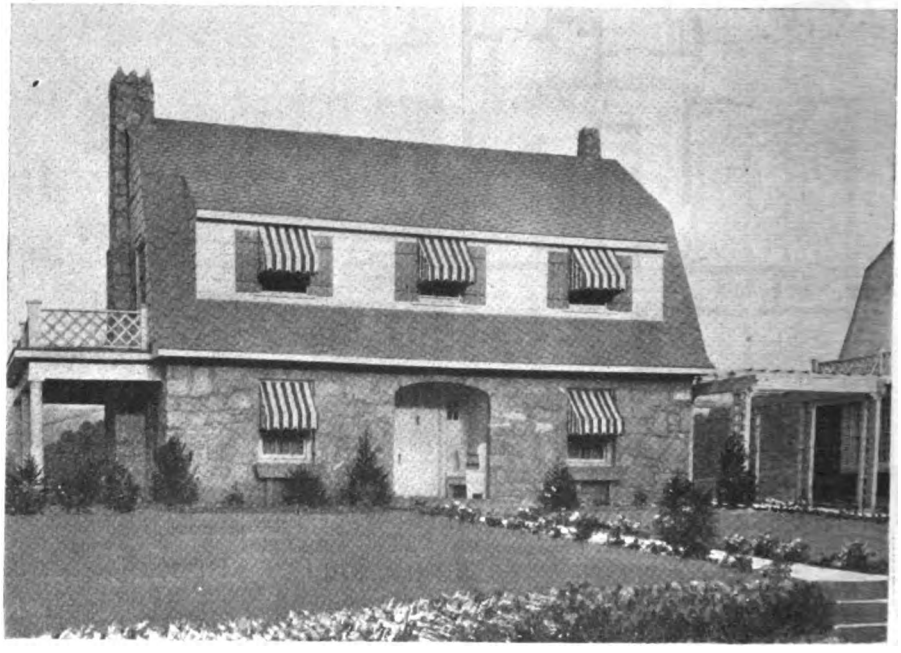
Some of the designs that we show

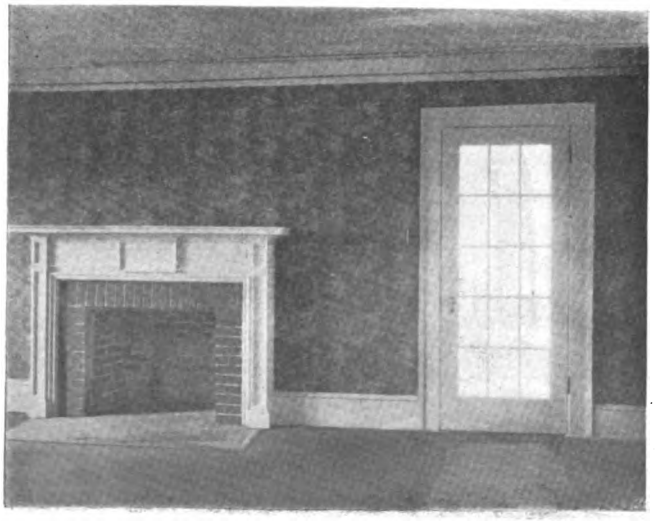
A Quartette *of* Designs

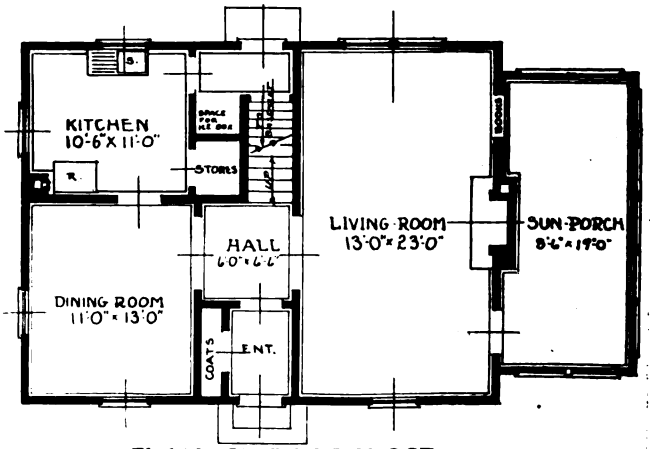
From the Same Floor Plan *Submitted by* Lee L. Powers

Vice-President
Powers Engineering & Construction Company

Asheville
North Carolina







PLAN · OF · FIRST · FLOOR

OVER 100 houses have been built from this floor plan with various exteriors. The top picture shows a clapboard design with front porch. Next picture a Dutch Colonial field modification with side porch and plan reversed. To the left is a snapshot of one of the living rooms

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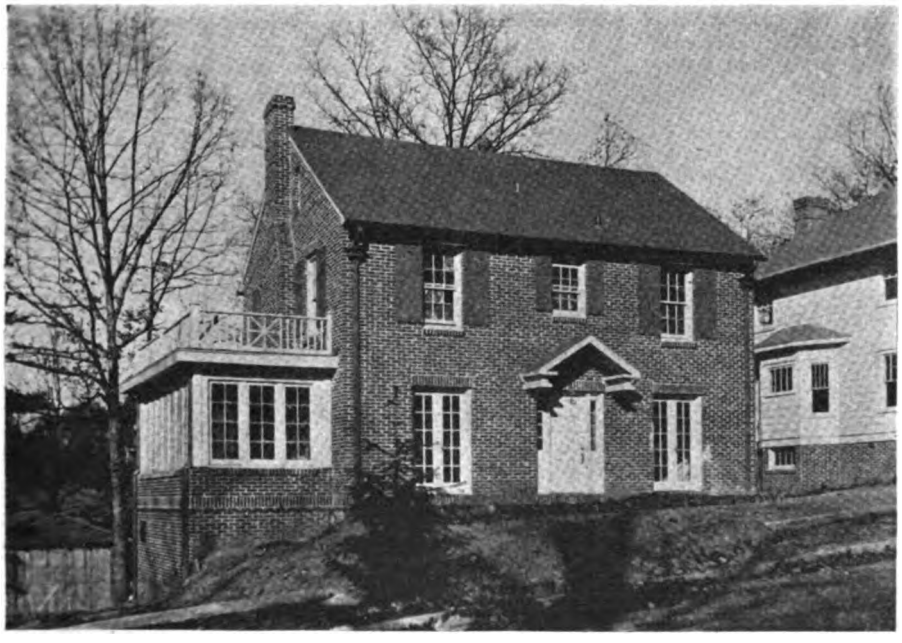
as best selling homes, lack any pretense to architectural period or style; still, they are neat and tasty, their proportions are good and they strike the eye of the prospective purchasers. We can not—nor can anyone else—give a hard and fast rule to follow in building a house that will strike the public fancy.

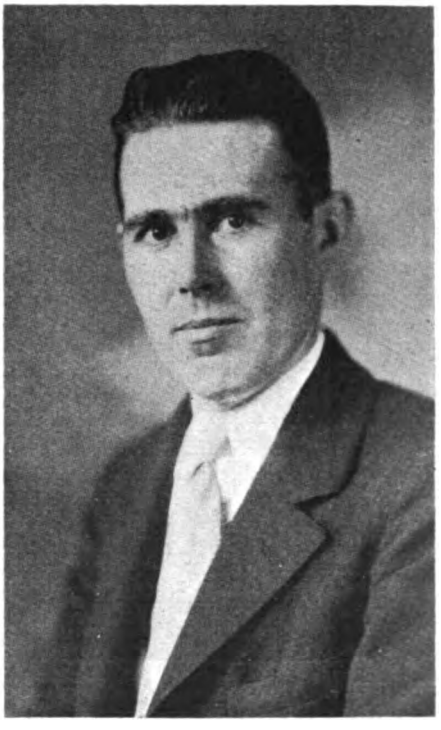
One may think that to select a design that will build a good selling house is simply a matter of luck, but this is not the case. It is due to good judgment gained by a knowledge of the likes and dislikes of the public and then to give them what they want to buy.

The college professors would call it Sales Psychology, but it really is plain applied business judgment. Just like a good clothing merchant

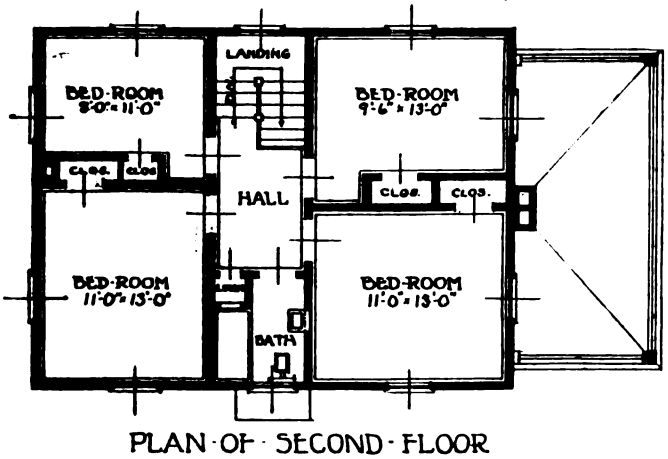
(*Continued on page* 132)







LEE L. POWERS



PLAN OF SECOND FLOOR



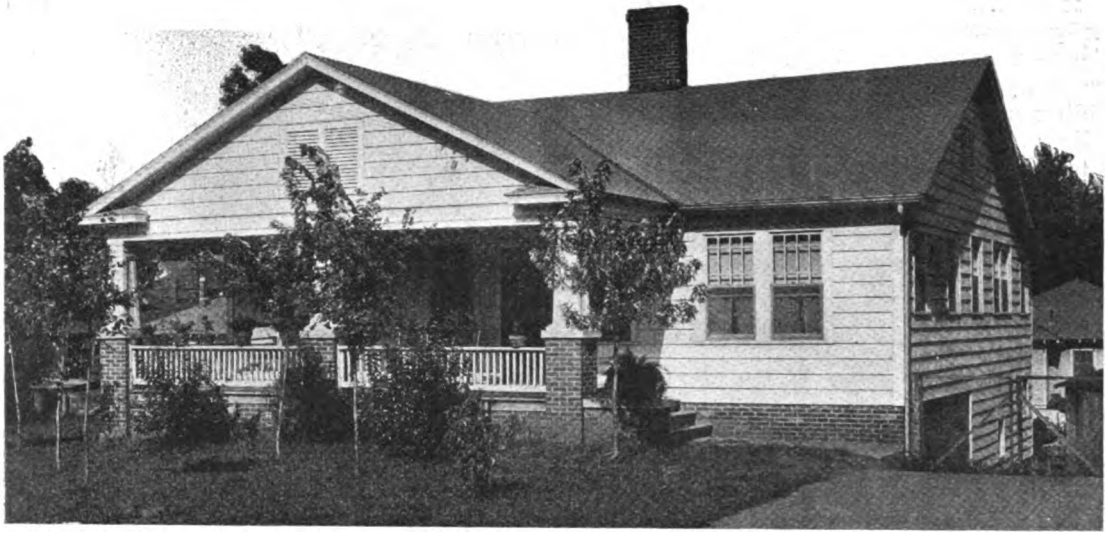
TWO other modifications of exterior design. Top picture shows an adaptation of the prim New England style and the second picture shows the same design carried out with an all brick exterior. To the right is shown a little snapshot of the stairway. The average cost is about $6,000

Variety For Exteriors Meet the Public Demand for Something Differen:

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Wood Siding Bungalow

Submitted by



O. W. Settle

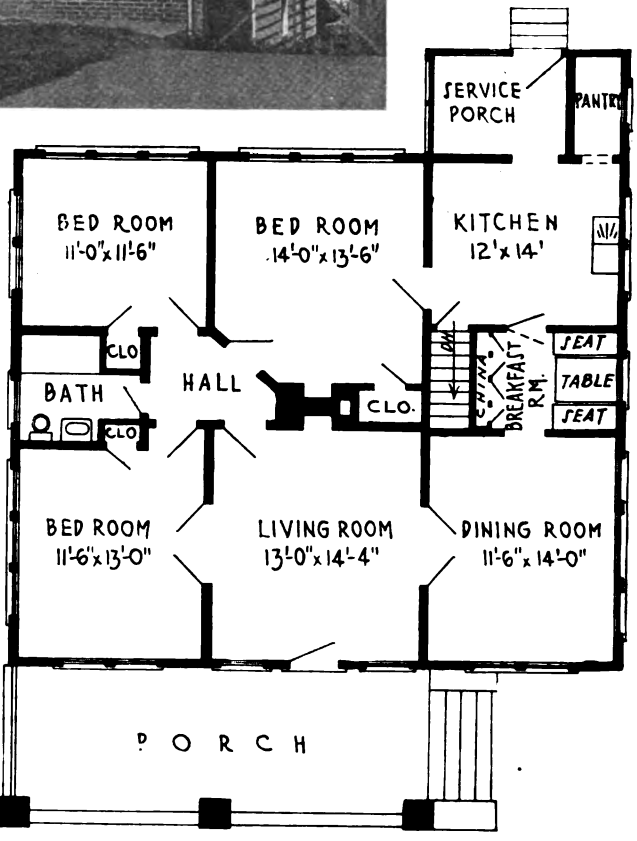
Atlanta

Georgia

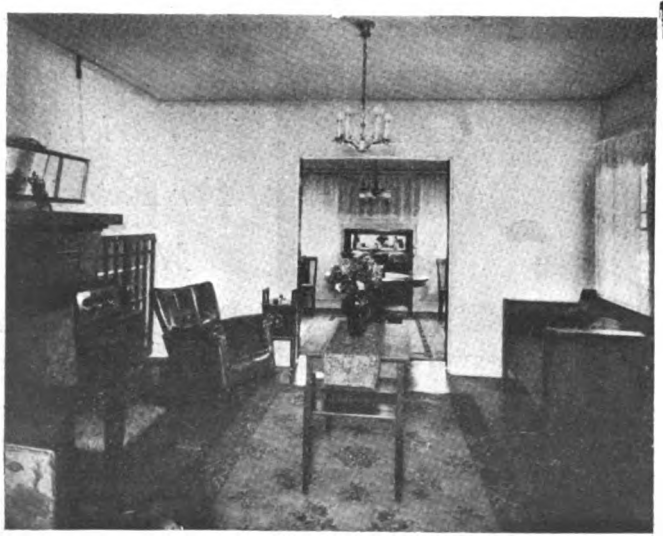


O. W. SETTLE

A VERY practical floor plan with a "comfy" looking clapboard exterior that has been sold for $6,300. With a brick veneer exterior for $7,500. Eight of these houses were sold during the year



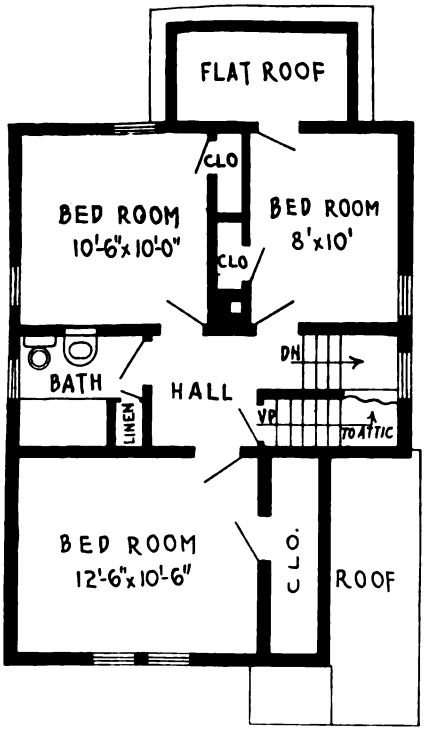
TWO views of living room, one looking towards dining room and the other looking towards front bedroom, which in this case was furnished as a music room

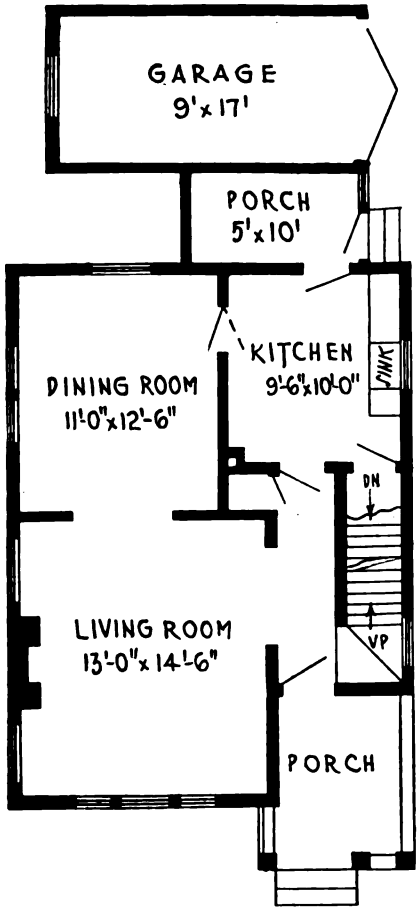




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RAY V. KEEN

for the Narrow Lot

Submitted by

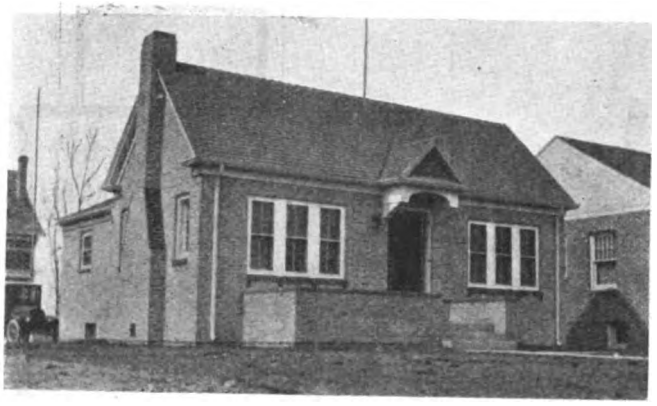
Ray V. Keen

Ashland, Ohio



INTERESTING indeed is the compact floor plan of this Gold Medal Home. In some cases it was built with garage attached to house, as shown on plan, and in others, rear porch was left open. Many of these houses were sold complete with lot for $6,000, including garage. The photograph of living room below was taken in a house in which plan was reversed to accommodate its location

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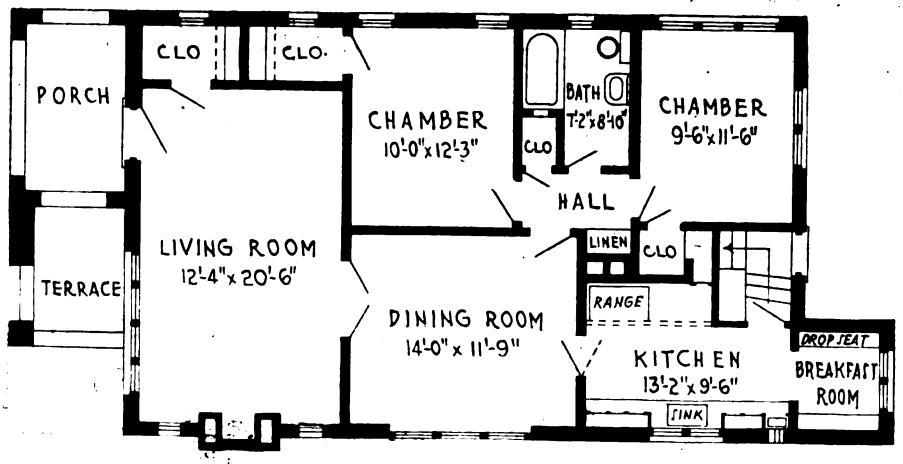


A Group *of* Brick Bungalows From One Floor Plan

Submitted by

The Welton Builders

Denver, Colorado



(*Continued from page* 129)

who honestly advises his customer to buy a suit of all wool material. So the progressive builder will sell good construction because it will pay his cutomers a bigger value for their money.

Like any other successful merchant, the builder should guarantee his goods, the house must wear well. No matter how cheap you sell a house, if it is shoddily constructed, it will give you a reputation that will be hard to live down—but give them something that will stand up well and it will be a lasting recommendation. Satisfaction built into houses means quick sales in no mtter what section you operate—the public have a way of finding out.

"If Jones built that house, you can rest assured that it is built well—I lived 12 years in a house built by him and it practically has needed no repairs—yes, the house cost a little more than my cousin's, who bought from a different builder at the same time, but he has had many expensive repair bills the last ten years, so that I really have the cheaper house now and a far better one."

There has been many a successful builder spoken about in the above fashion—and perhaps he doesn't know why he sold one of his new houses so quickly to people he never approached, but the truth of the matter is that he sold his new house twelve years ago when he sold satisfaction along with a house.

MORE than fifty houses from this plan have been built, some with slight modifications, the breakfast nook being omitted, etc. Each exterior was made just a little bit different. Below is interior of a living room. These houses, including lot, sold for about $6,000



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Four Bungalow Designs That Won A Gold Medal





TWO interior views of model home design: Above, kitchen looking towards breakfast nook—to the left, a view of dining room from living room

It is the builder-architect who really finds out what the home owner really wants. He talks to many prospects while showing them his houses and learns first hand the type of houses most wanted in a pasticular neighborhood and if he supplies that he won't go wrong financially.

The "builder-architect" is supreme in the building of the Best Selling Homes. For him contests such as this just closed, are good training. They give him an opportunity to find out what people like and a chance to see what new things are developed in his line of work all over the country. He will find that one feature appears to be coming to the front and he can tell prospective clients about it. Supplemented with the regular receipt each month of his favorite magazine, illustrating new houses in many sections of the country his training is completed.

While the architect appears to be neglected in the general run of homes of average cost the neglect is merely apparent; it is not real. To the architect is due the improvement in appearance of small homes by his adoption of quantity production of plans sold at smaller prices than those for which individual plans can be produced supervision of construction being left entirely to the builder who is subject to daily visits of the purchaser and members of his family, not to mention friends and acquaintances. Such a check-up is salutary.

The number of homes sold, of a particular plan, was secondary to the fact that they sold well. It was curious to observe, however, that the percentage sale of some of these

BELOW is a picture of the Welton Builders taken outside one of their recent apartment jobs. Mr. R. J. Welton is standing at the extreme left of the group. He can well be proud of his men as they are of him



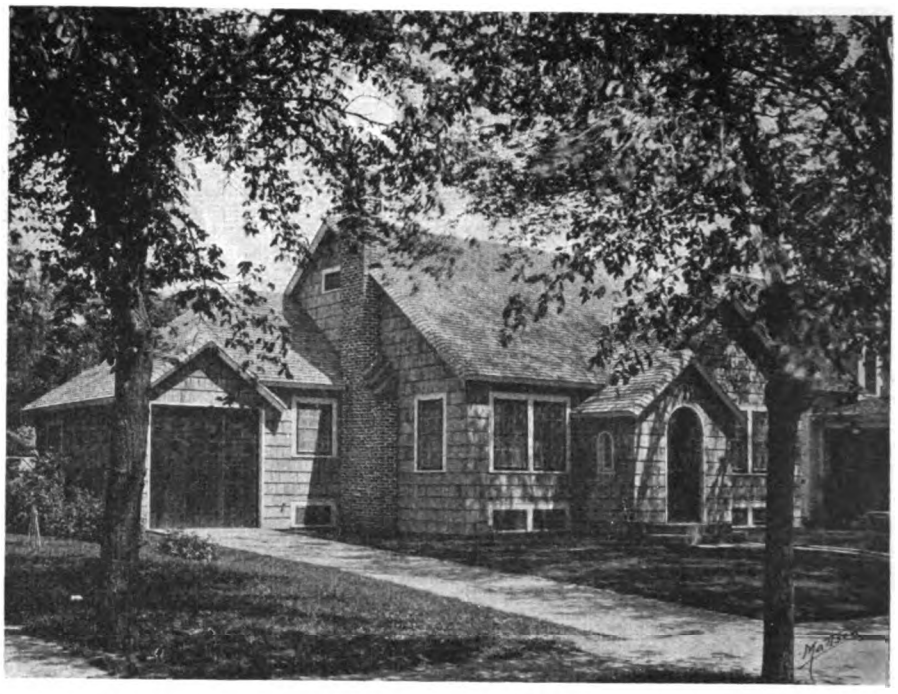
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homes to the total number sold in a community containing a certain population did make some of the homes not only best selling but big selling.

When a builder, for example, in a medium size city began to erect a house on slender means and found himseelf called upon by strangers who in passing by observed his work, to duplicate the plan, but not the exterior, from six to a dozen times before his first house was ready for occupancy no one can deny that he was building a "Best Selling Home." This with little, or no newspaper publicity or bill-board advertising. It was to such men that the medals were awarded as an appreciation of their sense of values in home building in their respective communities.



HUGH McCLURE
Manager, McClure & Co.



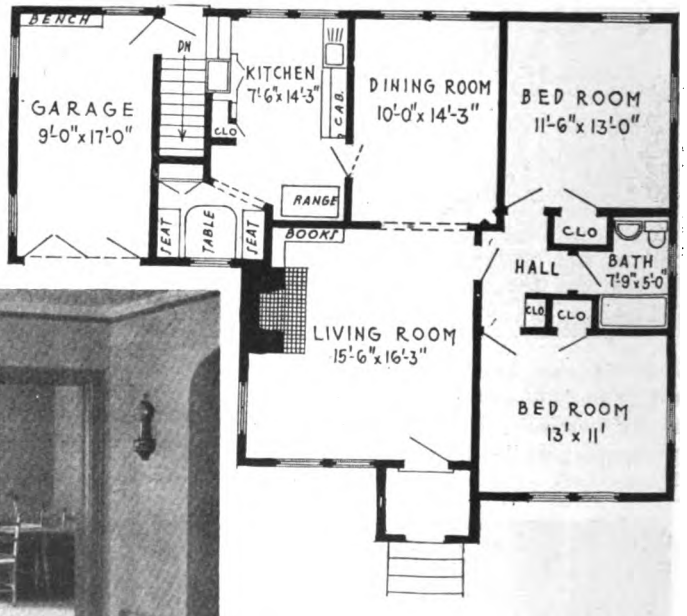
Shingled Charm

A Bungalow with Attached Garage

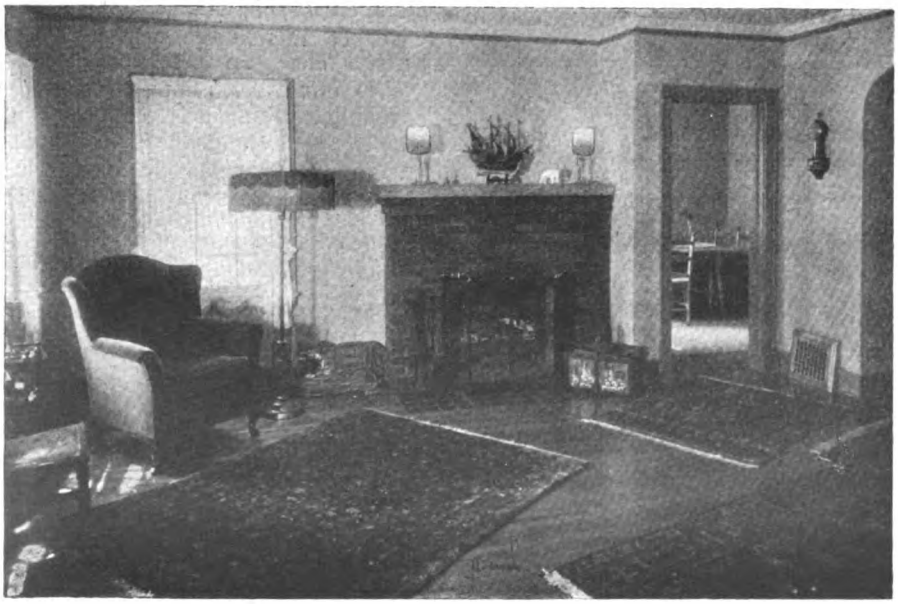
Submitted by

McClure & Company

Kearney, Nebraska



THE floor plan is a model of convenience. Bedrooms to one side make separate unit, while the garage can be reached from kitchen entry



DIFFERENT exteriors with slight modifications of interior arrangement make this one of the best selling homes in Nebraska. Its cost is $6,100. The living room photographed is one in a house where a doorway from living room was made direct into the breakfast nook. A comfortable and attractive home at moderate cost

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GOOD ADVERTISING *to* and *by* Builders

Advertising the Manufacturer's Guarantee of Quality

By Fin Greene
Finley H. Greene Adv. Agency,
Buffalo, N. Y.

WISE builders are learning every day to depend more and more on advertised materials. Time is one of the important elements of all their estimates, and time saved in selling is more money made. Selling unadvertised materials takes longer and therefore costs the builder more time, which to him means more money. The argument that unknown materials are just as good and cost less because they do not carry any advertising expense in their selling price, sounds reasonable. But this reasoning has steadily lost ground.

The buyers themselves, clients and prospective home owners, have been the first to discover that the unknown materials cost more in the long run. The delays caused by rejections and sorting have cost the contractor both time and money, and these losses have had to be passed along to the customer buying the job, or onto the purchasing public on later jobs.

Common sense and everyday business judgment have always indicated to the material manufacturer that he should put real quality into his product before starting to advertise it. He has realized that his reputation, and the permanent success of his business, must stand or fall on the tests made of his product in actual use. And, the accelerated production program and largely increased output, won by advertising plus quality proven in use have enabled him very soon to meet the price of the unadvertised competitor.

Now, granting equal quality, which line of an building material fill be best for the contractor to use? *Answer,* the best advertised line.

Summing up, I believe that the coming years will sucessively break the record of 1925 because this country is growing, its needs are growing and its people are ever reaching out to still higher standards of living. I feel that under the present conditions, the force of advertising is absolutely necessary tomerchandising. the making of quicker and more complete contact between these needs of the people and the products which are designed to meet these needs. I believe also in doing this work of advertising; that is, this work of introducing the "need" to the "product," that the building trades can best be served by an organization which already has had experience in accomplishing this result.

Check up these important links in the merchandising chain: is this material advertised in general magazines, so that business executives and prospective home builders know its merits?

Does the manufacturer cooperate with his dealers in running advertisements in the local newspapers?

Does the manufacturer supply attractive folders and booklets with local dealer's name on them, to be handed out or mailed out? Does the manufacturer advertise in architectural magazines, in builders' magazines, and mail booklets and reprints directly to these middlemen?

In planning our introductory advertising for a prominent brick manufacturer, we have taken care to test each link in this chain of

We have added interest to this work, among the people in our own office as well as those at the advertiser's by including play with work.

The campaign is laid out in the form of a baseball diamond. Here at home plate is the manufacturing, selling, and advertising headquarters, where the materials are produced, where real quality is built in, and where results are counted.

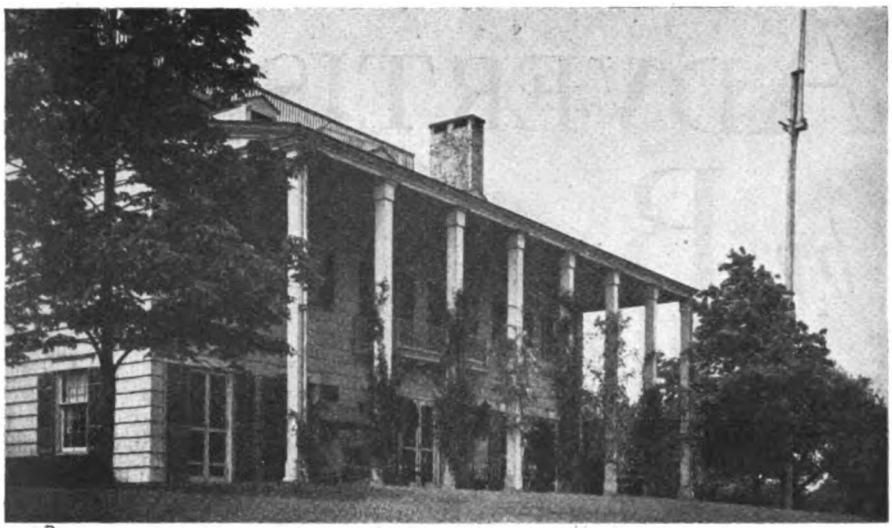
Down at first base we find the dealers, hundreds of them, busy and cooperating and making money. They handle the line because they are convinced of its quality and further because they appreciate the value of selling helps being furnished them in the form of letters, circulars, reprints, booklets, magazine advertising, display cards, and newspaper electros. If a dealer who is thinking of taking on the line asks them about the product by letter or during a convention visit, they given an enthusiastic testimonial, and so representation grows.

At second base we have located architects, builders, contractors, and real estate operators. We reach them both direct and through our dealers on first base, to tell them our story of quality and service.

Then on our baseball diamond chart, at third base, we have placed the general public. Our best work in educating them concerning the advantages and merit of our material can be done by way of first base to second to third, just as our great national game is played.

BUT observe this interesting fact about our game the ball, which we will call Advertising or Sales Cooperation as you prefer, can be batted from the manufacturer at home plate direct to the consumer at third, the architect or builder at second, or to the dealer at first base. No matter where the ball goes on our diamond it is sure to aid in the whole general scheme of distribution. If we interest a prospect the builder and the dealer benefit just as much as though they had found the business themselves.

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The SOUTHERN PLANTATION

A Southern Style

Ninth of a Series on Period Treatment

By H. A. Simons

The Correct Treatment of EXTERIORS and INTERIORS In Period Design

TO the prospective home-owner who seeks the formal and spacious, and to the builder who wishes to give dignity and distinction to his work, our Southern States offer two suggestions.

One is what is popularly known as "Southern Colonial," the house with the big colonnaded portico like Mount Vernon. The other is a style less well known, that combines livability and beauty in a most attractive way—the James River Colonial.

Southern Colonial architecture would better be called the Southern Plantation style, because it really was not a product of the Colonial period. Mount Vernon was completed during the Revolutionary War, and it was not until later that many manor-houses of this type were built. The style still remains especially adapted to the South and Southwest, and there is no reason why it should not keep its place among the Spanish and other styles now used so extensively there.

Every thing that we think of Mount Vernon, Arlington and other historic shrines of the Southern states built by our national heroes, the first thing that comes to mind is the great veranda, usually two stories high, supported by great white pillars, overlooking a wide prospect of lawn.

None other than our third President, Thomas Jefferson, was the earliest propagandist for the Greek temple style as applied to the American dwelling. He did his work so effectively that this style made a permanent contribution to our architecture.

But few of us realize what variety of porticoes may fittingly be built on a home of this type. The commonest type is full two stories high, covered by a pediment gable, the front of which may be plain or may contain a small circular or semi-cir-

A room in Marmion, Prince George County, Virginia, where fine paneling has been used. Panel treatment is the exception rather than the rule in Southern Plantation. (Photo: Metropolitan Museum Art, N. Y. At right white plastered walls provide the background for interesting, old Early American furniture

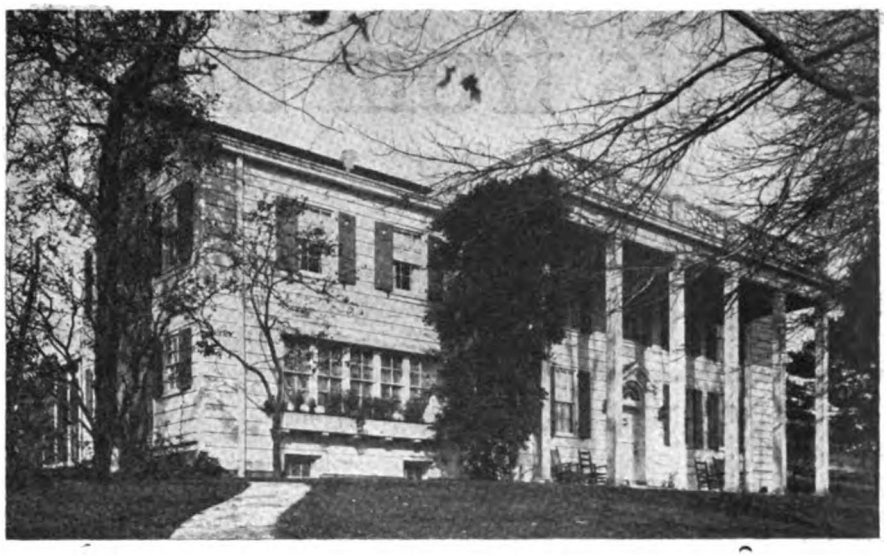




Photos by Tebbs & Knell, N. Y.

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SOME adaptations have two-story porticos running across the front or part of the front of the house. Often these are covered with pedimented gables. Again, portico is surmounted with a balustrade and roof is flat-decked as illustrated



cular window. This may surround the entire house, or only one or two sides of it. Or the portico may be only one story high, extending along one front or only part of the front. Or it may surround only the entrance itself, and be rectangular or semi-circular in plan. One interesting treatment is a semi-circular porch, one or two stories high, with the wall recessed in a semi-circle for the front door.

The pediment-gable derived from the Greek temple was not employed invariably. Often the columns supported an entablature above which there was a balustrade or railing of lattice-work. In this case, the roof of the porch was flat-decked so as to serve as a balcony. Personal taste also may have its way with the columns. Usually these were wood. The most common form was the heavy plain round Doric style. But fluted columns also were used, and it is not infrequent to find examples of this style with square pillars taking the place of the Classical columns.

Another fact of common knowledge about the Southern Plantation style is that it usually was built with an exterior of wide boards painted white—though there are examples in which it was rendered partly in stucco or stone or even brick painted white.

High-pitched gable roofs are marks of Mediæval styles. They correspond to the roofs of Gothic cathedrals. They were brought to this country by the first settlers, who came from an England which still was Mediæval. The homes of the Southern planters just before and after the Revolution showed great progress away from the style of the middle ages, and one sign of this progress was the disfavor of steep roofs.

SO we find in some old homes flat roofs with saucerdomes in the center. This, of course, does not coincide with our modern taste. Mount Vernon, Montpellier and other examples have extremely low hipped roofs, repeating the lines of the pediment over the portico, and sometimes partially hidden by balustrades. Often little cupolas were placed on top of such roofs.

Symmetrical design is another thing that distinguishes these homes from the earlier Colonial structures. The plan usually was a rectangle of good proportion, perhaps with a wing at each end. Windows and doors were arranged in considered relation to each other and to the columns of the portico. Chimneys came out of the ridge, usually set in from the ends of the house, instead of projecting upward at whatever point might be.

Usually in this style, the first story windows are larger than those above. As in the James River Colonial style, they often reach from floor to ceiling. Occasionally, we find the lower windows round-headed and set in embrasures in the wall. The more general treatment, however, is the rectangular opening, perhaps with pilasters on either side and an entablature above. Green shutters are of common usage.

As in the later Colonial work in New England, we find here a somewhat elaborate treatment of entrance-doors. Fan-lights and side-lights are common, but wooden muntins are used here more often than in the Dutch Colonial, for instance, where leaded glass of delicate silhouette filled the transom and the side-windows. In the main entrances of these homes, the Classical motives of the portico often are repeated. Pilasters, either plain or fluted, stand on either side of the door, supporting a heavy entablature or cornice over the transom. Sometimes we find that the main entrance is covered by a balcony, to which access is had from a door on the second floor.

Nor must we overlook another sign of the Classical in the exteriors of these homes. Where the veranda does not go up the full two stories,

(*Please turn to page* 154)



A GREATER freedom is found in the design of staircases for the Southern Plantation. These post-Revolutionary homes often boasted a double staircase, light in construction and running to a definite pattern in turned woodwork. Photos by Gillies

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News from the Field



On Second Mortgages

THE second mortgage is not a poor imitation of a first mortgage. It is not a mark of financial incompetence and distress. Secondary financing can be conservative and safe just as primary financing can be conservative and safe.

These are some of the principal points given a leading position in the Annals of Real Estate Practice for 1926, a nine volume publication of the year's contribution to Real Estate method and thought, issued periodically by the National Association of Real Estate Boards. A foreword to the article calls attention to the fact that more and more it is becoming realized that the second mortgage plays an important part in the economics of real estate ownership.

Mr. Robert B. Beach, executive vice-president of the Republic Realty Mortgage Corp. of Chicago is author of the article. "The service of the second mortgage is essentially different from that of the first . . . The principle most characteristic of secondary financing is that of regular amortization, in plain English, easy monthly payments. It is the 'Budget plan' . . ."

Mr. Beach hazards the assertion that a 25% equity increasing to 50% in three years is as safe, and if anything, safer than a 50% equity continuing for five years.

"The second mortgage, however, is not intended for the individual investor who wants a security he can lock in a strong box and forget . . . The new way is not to resell second mortgages, but to retain them and obtain funds not on mortgages individually placed but on mortgages collectively held."

Fifteen Masons in One Family

FIFTEEN masons in one immediate family is a record to which the building industry may point with pride.

The late Leonard G. Dennick, of Plainfield, N. J., formerly of Albany, N. Y., was a painter and grainer and was considered one of the best in the country in imitating the grain of rosewood and mahogany. He had four sons, George, William, Samuel and Jacob, and seven daughters, Mary, Jane, Adeline, Nellie, Lillian, Elizabeth and Awilda.

The four sons became masons and all of them eventually were superintendents of construction, engaged upon some of the largest projects in New York and vicinity. Two sons-in-law, Webb Gildersleeve, husband of Miss Nellie Dennick, and the late William Lyons, who married Miss Lillian Dennick, were likewise masons and superintendents.

Grandsons who are masons are: Leonard G. and Daniel M. McNeil, Samuel Dennick, Jr., Leonard Dennick, Walter and Frank Howarth, William Egan, and George and Harney Gildersleeve. All are residents of the states of New York and New Jersey.

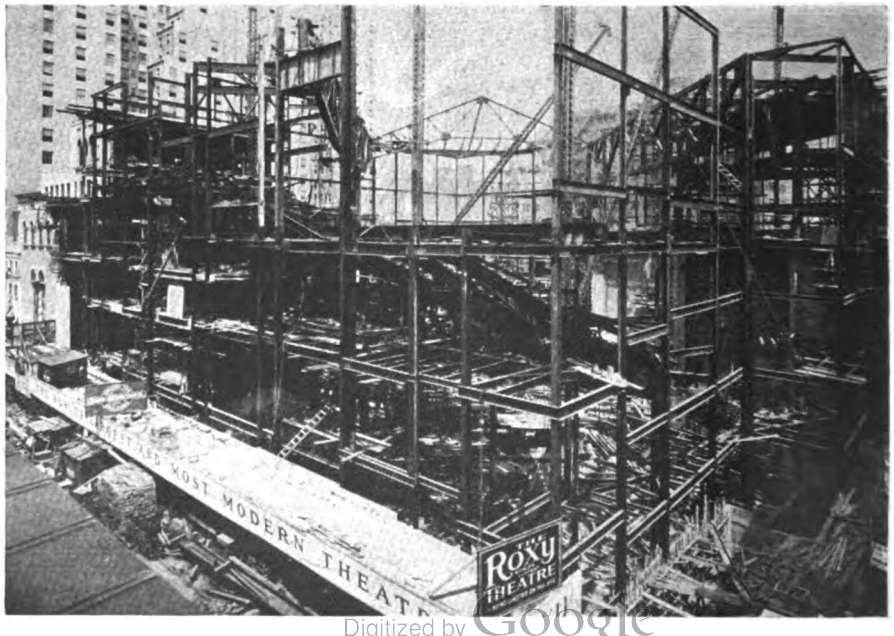


A CASE for the courts to decide. Mr. Barron of Washington, D. C. who owns the house blames the company excavating in the lot next door. The family barely escaped injury

Name for Lighting Equipment Assn.

THE recent annual meeting of the National Council of Lighting Fixture Manufacturers, held at Windsor Hotel, Montreal, Canada, resulted in a new name for the organization. From now on the Artistic Lighting Equipment Association will be the full title. The slogan, adopted for general use is "Decorate with artistic lighting equipment."

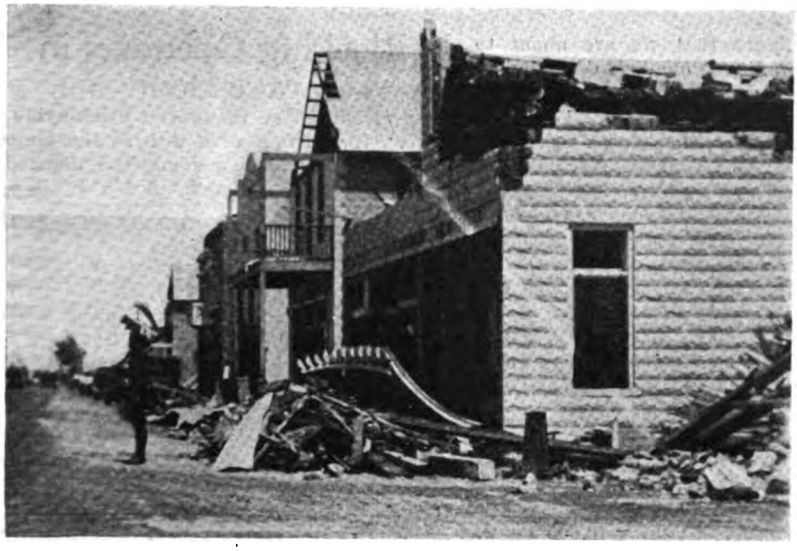
Officers are: Fred R. Farmer, Pres.; J. Wm. Schulze, Vice-Pres.; Fred R. Farmer, Chairman of the Advertising and Trade Promotion Committee; G. P. Rogers, who recently made a trade survey of the industry for the organization was permanently appointed Managing Director of the Association, and H. B. Garrett, former Secretary, was made Assistant to Managing Director.



RADIO fans in the building field are taking unusual interest in the new Roxy Theatre, N. Y. It will be one of the largest theatres and will be operated by Roxy, popular radio announcer. Steel work now completed

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News from the Field



When the Storm Hit Florida

A Page of Pictures Taken Within the Damaged Area

IN many cases, even good construction was unable to withstand the terrific wind. The below shows the Meyer-Kiser Bank at Miami. Its 14 stories came very near collapsing and in all probability must be rebuilt. To the left, it is seen that all construction suffered alike. Hurricane-proof buildings had not been considered necessary





Photo by Underwood & Underwood

IT is doubtful if any type of construction would have stood up under the raging wind and storm that struck Florida. To the left and below are buildings that would have stood for years under normal conditions. On the other hand, practically every flimsily built structure went down in the early stages of the storm while many others suffered major damage.

EXPERTS have come to this conclusion: While many well built structures were twisted and torn by the wind, they suffered very little compared to the complete destruction of cheap construction. In isolated cases large structures designed and built according to rigid requirements were struck badly.

It may not be practical to provide against hurricanes but when the unexpected does happen the well built structure weathers the elements far better than the flimsy one. Where the work was done properly, one building material seems to have fared as well as the next.



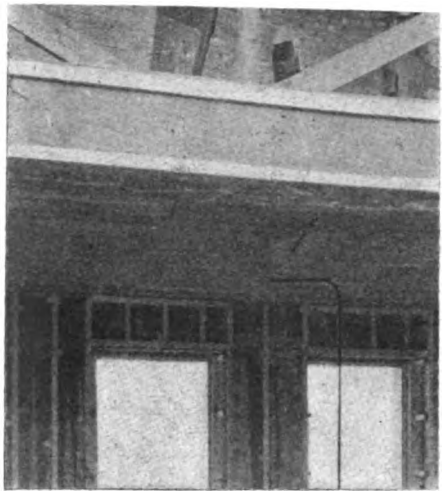
P & A Photos

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On the Job with the Construction Editor

Fastening Grounds in Concrete Beams

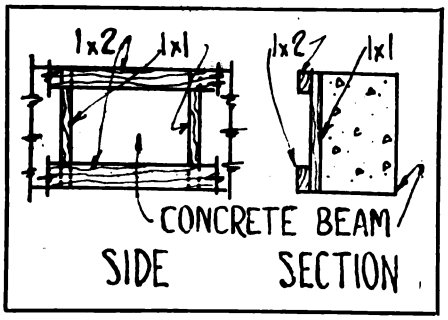
IT is hard to drive nails into concrete and expect them to stay put. Therefore the problem of setting grounds for nailing trim on concrete beams is not



as simple as it may sound at first hand.

It is easy, however, if the method illustrated here is followed.

When the beam forms are set, small pieces of 1"x1" should be nailed to the inside of the form so that they are on the outside of the reinforcing. When the beam is poured and the forms removed the 1"x1"s will be found to be held to the beam, and the grounds may be nailed to them. Any trim fastened to the grounds will be securely held in place due to the fact that it is fixed to a base set firmly into the concrete.



For Gambrel Roof

A QUICK and short method for determining the length and cuts of rafters for a gambrel roof, of a true octagonal figure, without recourse to higher mathematics, will be appreciated by all carpenters and builders. For convenience in illustrating, I am taking a building 30 ft. wide.

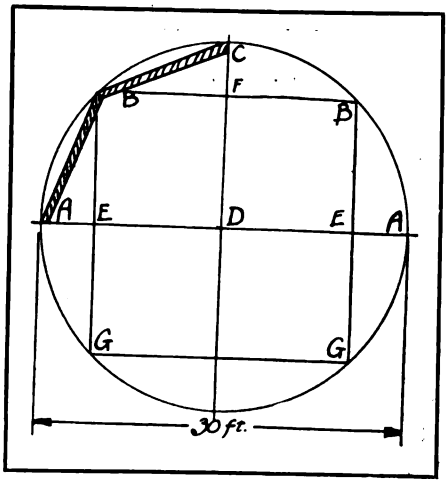
This geometrical figure shows a circle circumscribed, partly within the end of the building and roof; the radius or perimeter of which passes through ABC, from plate to peak and is bisected at point B on the circumference, by the geometric figure that we are about to use. This radius is one-half of the width of building, i.e., AD, BD, and CD, or 15 ft. Now for the solution:

First, multiply the entire width of building by the decimal .7071, which in this case, gives us 21.213, the length in feet of a side of the square, which we must inscribe within the circle above, in order to complete the figure.

Second, we now subtract one-half of this sum, EE, which is 10.606 ft., or ED, from one-half width of building, AD, or 15 ft., leaving us 4.394 ft., which represents the run of the lower rafters, AE.

Third, and as EB is equal to ED, therefore the rise of the first rafter is 10.606 ft., which bisects the circumference or angle at point B; and the very point we are after.

Now we use the figures 10.606 on the blade of the square and 4.394 on the



tongue, which latter figure gives us the cut for either end of our rafter pattern; and the length of the rafter may now be struck off as you would any ordinary rafter, with the run and rise given. The lengths and cuts of the rafter BC are the same.—**E. N. Davis.**

To Remove a Damaged Screw

TO withdraw a damaged screw without marring the wood around it there are several schemes in use today. Place the screw driver against one side of the screw head and hold a small block of wood firmly against the screw driver. By turning and at the same time pressing the block firmly against the screw driver, screw can be easily removed.

Where a screw has rusted in place, a red hot poker placed on the head for 10 minutes will cause it to expand thus enlarging the hole. When the screw cools off it will contract and can be withdrawn with ease. Very often where the screw is not badly rusted in a light tap of the manner will loosen it sufficiently.—**A. Popma.**

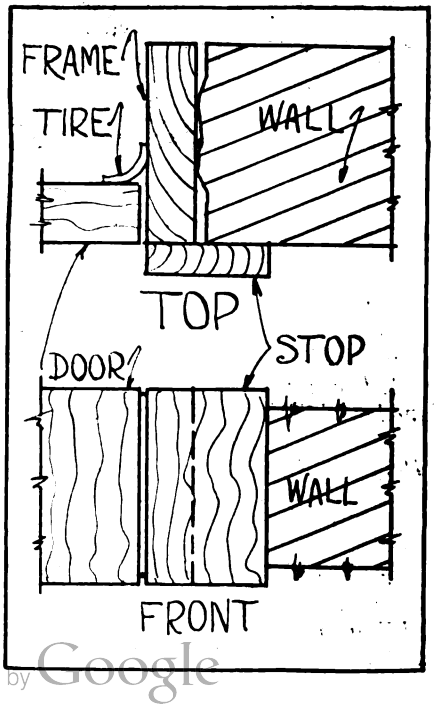
Blocking Openings in Garage Door

WHERE, due to uneven bricklaying, the surface of a wall at the jamb is not even the space may be blocked as shown in the sketch. A 1 x 4" stop,



nailed to the jamb on the outside of the wall does the work.

The writer saw an ingenious way of stopping drafts by blocking the opening at the door with an old piece of unused tire. While this blocks the drafts very effectively it also shuts out the possibility of ventilation. Unless there are ventilating flues in the garage it is better to suffer the draft rather than stop all ventilation and risk the accumulation of dangerous carbon monoxide gas. Many deaths are caused each year through this lack of provision.

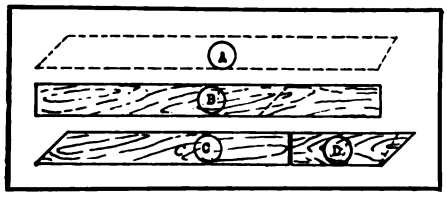


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On the Job with the Construction Editor

To Stretch a Plank

THERE is a well-known story about a carpenter's apprentice who sawed a piece off one end of a plank and spliced it onto the other end in order to lengthen the plank. The writer assumed



this story to be entirely mythical and did not suppose that it could have been based on a real occurrence until one day he found an apprentice actually trying it.

In that case the idea was so absurd—as it is in most cases—that it was very surprising to learn that anyone should have believed it to be possible; but it is hardly less surprising at a first glance to learn that it is actually possible to do this in some cases.

It can be done when the plank or board is to be cut on an oblique angle at both ends and the difference between the length of the plank and the desired length is not greater than the longitudinal distance between the heel and the toe of the cut that is most nearly square.

Thus the plank (B) in the accompanying diagram, if put in place in one piece, is not quite long enough to cover the space (A); but if we cut it along the dashed line and turn the pieces (C) and (D) end for end it is long enough with some left to trim off. Of course, one must be sure to make the cut in such a place that the joint will come in a proper place.—**E. Bergdal.**

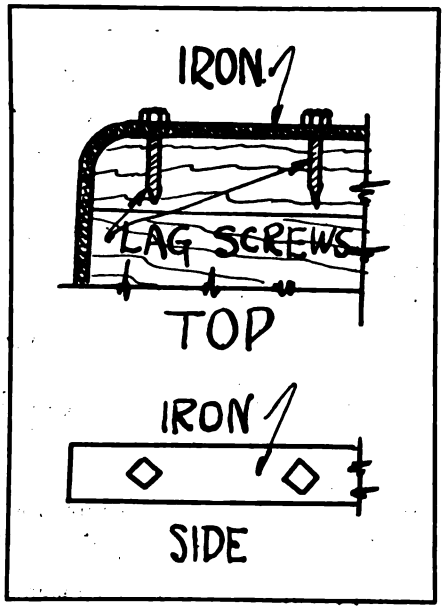
Mats for Steam Shovels

THE ideal arrangement for excavating in a muddy place is a steam shovel with the crawling tread type of carriage but the ordinary equipped shovel may be used as well if it is provided with mats which help to give it a better bearing on the soft soil and prevent it from sinking in.

These mats are made of heavy plank, preferably 4" x 8"'s, as a thinner piece will be apt to wear too quickly and a wider plank liable to be easily cracked. In order to hold the planks in a mat shape they are bound at the edge with ½" thick strap iron as shown in the sketch. The strap iron is held by lag screws.

Notice in the photograph that a hook and chain is fastened to the mat. This is to provide a place where the shovel may grab hold of the mat and move it about from place to place. The mats are fairly inexpensive to make and will last a long time. They are practically a necessity when excavating with a wheel carriage shovel in a soft place.



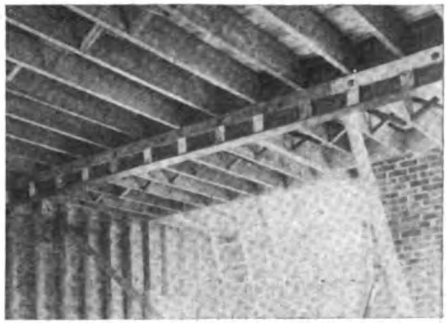


An Iron Tank Patch

TROUBLE comes to the farmer in big gobs when his iron watering tank springs a leak and he has no running water handy or other provision for his stock.

If a leak in a galvanized iron tank has been caused by the cracking of solder or rusting at the seams, or by holes cut in the bottom when chopping ice out with the axe, it can be made absolutely and permanently water tight.

Clean the place to be repaired and paint it over with a thick coat of a mixture of iron oxide and coal tar, thinned to consistency of glazier's putty with boiled linseed oil. While paint is drying take a piece of linen cloth large enough to cover the break and extend beyond about an inch in each direction; paint this cloth until it is thoroughly impregnated with the thinned mixture; then cover it with a heavy coating of the putty-like paste. Place it in a position over the leak and smooth down the edges to an even and feather edge. This mixture will be found handy for a number of things, such as repairing your leaky porch roof, eave trough, ice box, etc.—**L. S. Bonbrake.**

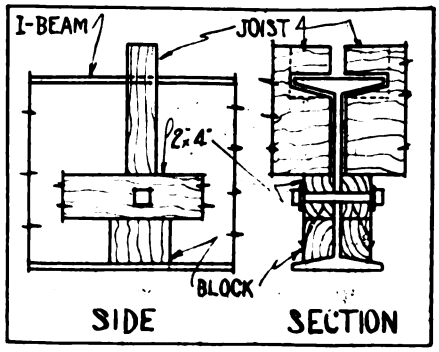


Furring for a Steel Beam

IN times past the use of steel on small residential construction was a matter to be undertaken with considerable deliberation. Not because of the cost but because the use of steel beams for small buildings was not common practice. Today, however, steel is generally used for buildings of all types and sizes and it is in the use of steel beams that this item may be found helpful.

It is, of course, impossible to lath the under side of a steel beam or to plaster over it. Therefore the beam must be furred so that a base for the lath is provided. This furring may take many different shapes, depending upon the condition of the framing. Thus, for instance, furring for the side of a steel beam will have to be done differently than furring for the flange.

The case illustrated here shows where furring has been used for the side of a beam. Notice that a 2x4" has been fastened to the web of the beam for the purpose of furnishing support for the floor joists. This 2x4" forms a part of the furring, and also a nailing base to which the rest of the furring may be attached. Below the 2x4" which runs



along the web of the beam, are nailed small blocks which are cut to fit between the under side of the 2x4" and the top of the beam flange as shown.

The base for the plaster will consist of metal lath, nailed to the 2x4" mentioned and to the blocks. The metal lath will be bent around the under side of the beam and fastened to the 2x4" running on the other side of the web. Thus the plastering will be held on the bottom and the both sides of the steel.

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TALKS with and Correspondence from Our Readers

A New Department Conducted by the Building Counsellor

IN these Talks With Our Readers it is the intention of the Building Counsellor to discuss the thousand and one things that come to the attention of the staff of BUILDING AGE AND NATIONAL BUILDER, from visitors as well as through letters. When there appears to be nothing special on hand to discuss the Building Counsellor proposes to wander over the field, discussing in his own fashion the things that interest him. It is quite likely, for he has been forty years in the game, that what interests him will interest the readers.

The department in reality belongs to our readers. Here will be answered the queries they pose and letters asking for information will be replied to here instead of being placed in a correspondence department. Much of the matter will be brought to our attention by visitors and it is hoped that more of our readers will drop in to talk over affairs with the Building Counsellor when they come to New York.

"THE question of the apartment hotel," said the Building Counsellor, "is being discussed in many of the smaller cities of the country. In my opinion the realtor and builder will do well to look carefully into this matter before trying to saddle such residences upon his home community."

"New York is not always a first class example to follow because conditions in that great city are not comparable with conditions in less important places. Manhattan is a quite narrow borough in Greater New York, much of the area being covered with office and store buildings. The population is decreasing, the majority of those who can do so, going to suburbs. There is now no place for the old type family residence and multi-family houses have come to stay."

"For many reasons, all of them apparently sufficient, a great many people wish to live in Manhattan. The high price of servants and the marketing difficulties experienced by those living in the better neighborhoods led to the development of the apartment hotel. It is a luxuriously built and equipped building where perfect service makes the wife free from all household drudgery. No cooking is permitted in any of the apartments, all meals supposedly being partaken of in restaurants which are a part of the service."

"Every apartment has a serving pantry, which, in less modest buildings is known as a kitchenette. This serving pantry is supposed to be used only for the purpose of enabling waiters sent from the restaurant, to serve tenants who prefer to partake of meals occasionally in privacy, or who may wish to put on a small party."

"It is more than suspected that many of these apartment hotels exist because of the zoning laws. Under the law the height limit imposed upon apartment houses having kitchens, or kitchenettes, tempts speculative builders to call the kitchenettes serving pantries. In this way several additional stories may be added. A dining room must be a part of the hotel, in order to guard the hotel status, but there is no check upon the people living in the house, as to the number of times they patronize the dining room."

"It is believed that a great many of the serving pantries do duty really as kitchenettes for breakfast as well as for the midday lunch of the wife. The manager complies with the law when he informs the people from time to time that they are not to use the serving pantries as kitchenettes. Such rules are about as easy to enforce as the prohibition law. This manner of living is becoming quite popular and an enormous number of such hotels are being erected. In cities where the business and amusement areas are not so restricted as in New York City and where it is easier to get about because of less street congestion, the apartment hotel may be out of place."

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Talks with and Correspondence from Our Readers

"I would advise all of you," continued the Counsellor, "to read each month the page containing statistics of building construction. Just now we are learning from reports claimed to have been issued by government bureaus, that the country is overbuilt. These reports are more cautiously worded than those issued a year ago, in that an admission is made that some portions of the country appear to be over-built while other sections show a deficiency."

"Early in the summer of 1925 similar stories appeared and BUILDING AGE AND NATIONAL BUILDER made an independent survey, the results of which were published widely. Events have shown that it was more correct than any that had succeeded in creating a feeling of doubt among builders. There has been in some places, a decrease from the high marks reached in 1925 but elsewhere there has been a healthy growth each month in the present year. In New York City alone the value of building contracts awarded in August was 75 per cent greater than the record for July, in which month there had been reached the highest monthly total since April."

"A noticeable feature of the building field is that the greater amount of money is being spent on residential construction. In August only 9 per cent of the contracts were commercial buildings. That this is not enough is proved by the statement made by A. E. Lefcourt that as fast as he completes the mammoth structures he is erecting on Broadway, they are filled with tenants. Renting conditions for Broadway space, he says, are not poor. It bears out the claim made in this paper last Fall that the United States has entered upon an era when normal building means not merely building to satisfy increasing population, but the tearing down of obsolete buildings and the erection of buildings that are modern. Obsolescence is taking on a more rounded meaning in that it is not wholly physical. A building may be good for a thousand years of existence but, so far as the public taste is concerned, it is obsolescent. It must be replaced if the owner is to get a proper return on the taxable, and taxed, value of the property."

"The building business today appears to be in a sound condition. The feverish rush is about over and there will not be the shortage of skilled labor that was so much in evidence a year or two ago. Prices of materials are showing steadiness and the bankers of the country are managing to keep the average price level down to extremely small fluctuations. This is a most encouraging sign that the panics of the early years of the present century were not without value. It is extremely unlikely that such panics ever again will occur."

* * * * * *

"Talking of learning from panics and other experiences, it is strange how hard it is to get people to do things differently. The metal lath is an instance in point," continued the Counsellor. "It came on the market about thirty years ago when Golding invented expanded metal. I mean now the expanded metal lath, not the lath in sheet metal form. The cost was naturally practically proportionate to weight and architects got into the habit of specifying expanded metal lath by gauge, using the lightest lath possible."

"Unfortunately many jobbers changed tags on lath. They might buy a 27 gauge lath and use it to fill orders for 26 gauge. Every sheet was tagged and many jobbers bought the sheets untagged from manufacturers, putting on their own tags in the warehouse, for manufacturers refused to be a party to anything that would injure the material. When the metal is stretched it of course is made thinner and there was no check."

"Early in 1908 manufacturers began to take the matter into their own hands and advertised that no expanded metal lath should be used ordinarily that was made of metal lighter than 24 gauge, which weighed 3.4 pounds per square yard. To specify the weight of the lath prevented any fraud through tagging and thus protected the purchaser. An active advertising campaign to architects and builders to specify lath by weight per square yard has been carried on since 1908. On the table before me is a specification that came in July, 1926, from the office of a very prominent architect calling for 26 gauge expanded metal lath. His specification writer should read the advertising pages of building journals and also collect catalogs."

"In the same year, 1908, a manufacturer of expanded metal for reinforcing concrete had trouble with an inspector. The specifications called for 10 gauge metal, three-inch mesh, standard weight, the customary way in those days for specifying expanded metal. The mesh was three-inch and the material was expanded from 10 gauge metal. The weight per square foot was exactly as specified in the catalogue for standard. The inspector insisted that the metal should be equal to 10 gauge in thickness when received."

"This necessitated using a gauge which would be not less than 10 gauge after expansion, thinner strands being used in order to hold to the standard weight per square foot. Then all mention of gauge was dropped by that company, a number being used instead, the first three figures of which represented cross-sectional area per foot width of sheet and the final figure stood for the width of the diamond. Other manufacturers later followed but, on account of copyright, put on some figures standing for the gauge. Also, they said they had to do it because it was impossible to get the men who bought their stuff to stop ordering by gauge. Last week a specification came to me which was written in May of this year and contained a clause that was recommended in the year 1901, and which has not appeared any printed matter issued by the manufacturer since 1908. The moral is, "Date all catalogs received and keep them no longer than one year." Read 'em and weep for your lack of up-to-dateness."

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"How many of you fellows here can tell me what you mean when you put in a specification the words "sharp sand?", said the Counsellor, as he

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Talks with and Correspondence from Our Readers

re-lighted his cigar. "The men who are interested in telling us how to make good concrete have been making fun of this description of sand, if it is a description, for a number of years. I found it in twenty-five specifications written by supposedly good men this year. Let us hear from all of you that are here and if any of the readers think they can describe "sharp sand" let them write in and tell us what it means. I, for one, would be greatly interested in knowing what sharp sand is."

* * * * * *

"There is a decided movement now on hand to protect the name of "Builder," To what extent this has proceeded it is the duty of all reputable builders to write in and let us know and discuss it in conference. A great many large corporations, soulless beings they are called, are now advertising that they are not hampered by specifications. They have made a careful study of all specifications that control their product and advertise that they make it "Better than the standard specifications demand."

"Are there many builders left today who can make such a statement as a matter of fact and not as a boast? I have the name of a dealer's organization that is planning to give builders the fullest possible co-operation in doing work just a wee bit better than the specifications require. The name will be made public at the Conference Table next month, together with names of other organizations that are taking the same stand."

"From samples left to us from the days of our grandfathers there is an idea that each man built into a structure something of himself. From what we read in the daily press one gets an idea that none of the decent tribe lives today. Personally I think the number is fully as great today but it is submerged in the ranks of those who rushed into the building game to help make up war shortage of construction. A house, according to the definition in one state law, consists of walls and roof. A great many houses deserving of no better description were erected since 1919. People had to have walls and roofs and bought them. Now that the rush is over buyers will be more discriminating. Our builders must do more than barely follow the specifications, for the most perfect specification does not give the purchaser just what he expected to get, a thoroughly honest job in every particular. Protect the name of "Builder." The monthly Conference exists to aid this worthy movement.

* * * * * *

"Next month the Conference will discuss the financing problems of builders and their clients. Come prepared and send in what you have to say at an early date so the matter may be dished up nicely."

* * * * * *

"One of the biggest items in financing is that of upkeep. A man buys a house and intends paying for it out of income, not always the income derived from the house but whatever income he may have. The "set-up" is based always on the house new and, without saying it in so many words, upon the basis of a house that will require no repairs or renewals until the mortgages are paid. Unless care is taken to keep the up-keep expense down the payments are going to become oppressive within a few years. It is wonderful what a difference can be made by doing a little preliminary study and going to a very small additional expense when building. Here are two pictures given to me of shingle roofs, that illustrate the idea perfectly."



Fig. 1. A shingle roof thirty-four years old that was laid with rust-proof nails

"THE roof shown in Fig. 1 had passed its thirty-fourth birthday anniversary when the photograph was taken. The roof shown in Fig. 2 was only ten years old when photographed."

"Records showed that the quality of the materials was specified carefully and workmanship was rigidly inspected. A casual study of the specifications indicated apparently that both of these roofs should have been good for at least fifty years."

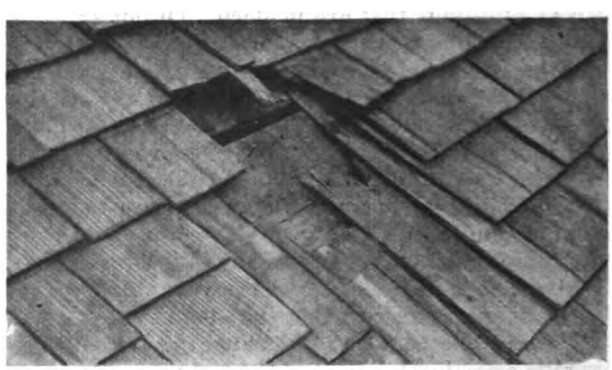


Fig. 2. A ten year old roof in which common nails were used entirely

"One hyphothesis advanced for the difference was that dry-rot appeared in one roof but had missed the other." A brief examination proved this to be wrong and it was necessary to look for a better reason. It was found unexpectedly in the specifications. Those for the older roof contained a clause which specified the number of nails per shingle, these to be "of a quality guaranteed by the maker to be rust proof."

"The specifications for the second roof were

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Talks with and Correspondence from Our Readers

copied from the first, except for the quality of nails. The specification writer changed the clause to read as follows: 'The shingles shall be nailed with a sufficient number of nails to the satisfaction of the superintendent of construction.' The superintendent followed good practice in the number he required but permitted the contractor to use ordinary nails."

"The saving in cost of the nails was less than two dollars on the building. The difference in quality made such a difference in the life of the roof that the use of rust proof nails saved the owner of the good roof about $12 per year in depreciation cost, not to mention annual repairs the other owner had to make because of the rusting of nails."

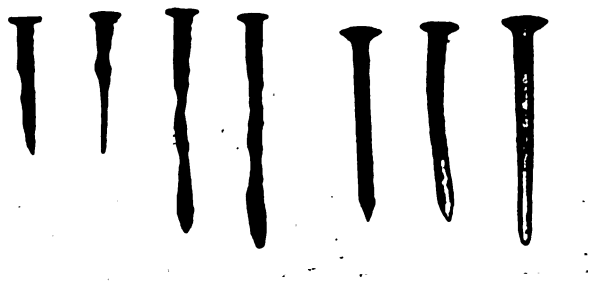


Fig. 3. Nails from the two roofs. The corroded nails are not rust-proof and were in the roof ten years. The good-looking nails are rust-proof and were in the roof thirty-four years

"Fig. 3 shows nails taken from the two roofs at the time they were photographed. Seldom is the value of small things better illustrated. In an old rhyme the importance of nails was mentioned two centuries ago, based on an historical fact. A general hastening to join his army that had been attacked, stopped to have his horse shod. One of the nails broke after his hard gallop recommenced and the horse cast a shoe. This brought on lameness and delayed the general until, near the scene of battle he met his army in full rout. The lost battle caused the loss of a kingdom, but it must be presumed that the man who wrote the specification for the roof could not have known the popular nursery rhyme about the defective horse shoe nail."

"The additional cost for rust proof shingle nails is such an extremely small percentage of the total cost of a building that they should always be specified. The photographs from which the accompanying illustrations were made were loaned by Mr. James L. Maze, of Peru, Illinois."

* * * * *

"E. F. D. has a big problem. He lives in a section of the country where the humidity is extremely high at times. He wants to know how he can keep his basement dry during hot days, during which water drops from the surface of cold water pipes. The walls appear to be tight and the floor is dry except on hot, muggy days."

"He should plaster the walls and ceiling with lime plaster and omit the hard finish. Do not paper or paint the surfaces, but colored kalsomine may be used if desired. Such a surface will absorb excess moisture when the humidity is high and give it off on days when the air can absorb it. Cover the pipes with an absorbent insulating material. This will lower the temperature of the exposed surface so that dropping of water will be unlikely to occur. The porous covering will take up excess moisture which will be given out on dry days."

"If the above suggestions do not provide a complete enough remedy for the trouble use trays of lime on warm, muggy days to assist in absorbing excess moisture. Break the lime into pieces about the size of walnuts, and use it in trays having a depth of about one and one-half inches. The area of the trays in square feet should be equal to 2 or 3 per cent of the volume of the room in cubic feet."

"When the lime softens and may easily be crumbled with the fingers it is hydrated and should be replaced by fresh lime. The hydrated lime may be stored in a perfectly dry place and be later used for plastering. If it becomes very soft and damp it is proof that it is slaked and, unless used quickly, will be "killed" by the excess moisture it holds."

* * * * *

"A couple of English engineers visited the United States last year to study working conditions. They wrote a book as a result, entitled "The Secret of High Wages" which has been translated into several languages and is exciting great interest all over the world. The secret lies in great production, which came about by extended use of machinery, the said machinery having been adopted because of the high wages. Thus high wages made it necessary to use labor saving machinery and this in turn raised wages still higher because of reduction in unit cost of production. The cheaper things were made the lower the cost at which they could be sold and the lower the selling price the greater the volume of sales, this volume being possible because of the enormously large number of highly paid wage earners who were (are) the consumers!"

"Similarly the building business shares in the general prosperity, because when construction and maintenance costs are reduced more buildings are erected. Clever men are working constantly to effect improvements in building materials and methods in order to reduce costs, or at least to prevent costs rising with wages. Also, they are working to bring things down to modern requirements and do away with the blind following of precedent. When buildings keep going up there is a demand for workmen and when workmen are employed they spend freely. This is so elementary that it appears to be foolish to stress it but in the present era success comes to the man who marches well to the front and faces ahead. Old ways of doing things may be all right but they should not be followed until studies are made of newer developments."

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Talks with and Correspondence from Our Readers



Fig. 1. First National Bank Building, Canton, O.

"THE office building owned and occupied by the First National Bank, Canton, Ohio, (Fig. 1) is an interesting example of work done by structural engineers who keep abreast of the times in the practice of their profession. Such men do not belong to any fundamentalist school in holding to the conception that building design cannot depart from fixed standards. The libraries of such men, for the most part, consist of carefully selected and well indexed clippings from well edited technical papers and pamphlets of trade literature."

"A fundamental principle in the design of buildings, especially corner buildings exposed to the full force of wind from two directions, is that they should be well braced. The bracing should be economically planned and this leads quite naturally to the use of floor beams for the purpose. This was done in the building in question by making the floor panels square, with girders connected rigidly to the columns."

"This arrangement of girders indicates that the most economical, fireproof floor would be of two-way reinforced concrete. The average designer might adopt such construction without much study. From the standpoint of floor construction alone, he might be right. But, while lighter than a floor reinforced in but one direction, it is not as light as a fireproof floor can be made; and weight is an important item."

"Every pound of weight saved in a floor decreases to some extent the weight of the supporting girders. The combined weight of the floor and girders goes to the columns. The combined weight of floors, girders and columns is carried to the foundations, which, important as they may be, are out of sight and owners generally like to have ocular evidence of cost. Furthermore, the more weight there is on the foundations, the larger they must be, this adding to the cost of grading, preparation of site, sand, stone, cement, etc. Every pound of steel framing saved means lessened hauling and hoisting expense for the contractor, therefore every pound of dead load affects the entire building operation."

"When the design of a high building is started the type of roof construction is determined first in order to find the column loading. Then careful study is, or should be given to the type of floor so that the columns will carry the minimum load possible. The cumulative load carried down from floor to floor fixes the column sizes in each story, until the foundations, the last item in the design, are reached. Thus the designer and the constructor approach their labor from different points, that which was last with the designer being first with the builder."

"After providing for dead loads the designer provides for wind, carrying this force through the framing in as economical a manner as possible. It is an advantage to be able to carry all the wind through the main framing, thus leaving to the floor the work of carrying only the vertical applied loads. Floors perform a secondary function, that of laterally bracing the girders, but this is purely secondary. If discovered that consideration of this function will increase the weight of the floor, tie rods may be used and the floor permitted to serve merely as a floor."

"In the First National Bank the original design contemplated floors of two-way concrete ribs with clay tile fillers. A study showed that this arrangement, calling for girders of equal size on four sides required no more floor steel than would have been used with supporting girders in one direction and light tie-beams at right-angle to them. The stiffness of the structure also was greater. This factor was deemed to be desirable and was retained when lighter methods of floor construction were studied, to cut down cost."

"The floor adopted in the final analysis was of reinforced concrete carried on metal lumber joists. These joists, as shown in Fig. 2, were laid in different directions in alternating panels, producing a checkerboard effect before they were hidden from view. A novel feature was the omission of supporting shelf angles on the girders. The ends of the joists are supported by the concrete that was poured around the girders to serve as fire protection. This item was one more that helped to spell

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Talks with and Correspondence from Our Readers

economy and is fully as satisfactory as the use of shelf angles."

"Two interior panels of the second floor framing have diagonal bracing. The regular joist floor was placed below the diagonal bracing, filler joists carried on the regularly spaced joists being placed in the plane of the bracing to carry the concrete floor over it. These filler joists were 10-in. deep where the floor was 2½-in. thick and were 9-in. deep where the floor was 3½-in. thick. The weight thus added being merely that of the filler joists, was inappreciable and the added expense was negligible."

"In fireproof buildings the floor dead load generally is much greater than the live load the floor is designed to carry. In the endeavor to lessen the dead load inventors and manufacturers have been of great assistance to structural designers. The use of metal lumber floor joists in this bank and office building effected a saving of over 40 per cent of the dead load, or 35 lb. per square foot of floor construction, or 217,000 pounds for each typical floor. The total reduction in weight for the floors from the second to the fourteenth inclusive, plus part of the roof, amounted to 2,837,000 pounds. It was estimated that this reduction in weight called for 1435 tons less of supporting steel framework than would have been required to carry the two-way concrete floors. The general contractor was the Walbridge-Aldinger Co., Detroit, Mich., the floor joists being supplied by the Berger Manufacturing Co., Canton, Ohio."

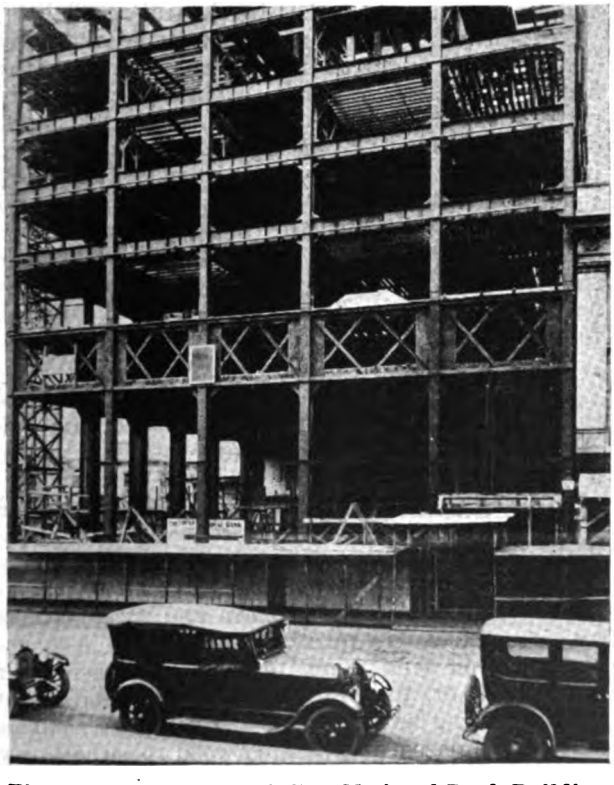


Fig. 2. Steel framing of First National Bank Building, Canton, O., with metal lumber floor joists

"NOW," said the Building Counsellor, turning to a pile of correspondence, "Here are a number of inquiries that came in lately to the office and if you note any errors in the replies or can add anything to them do not be afraid to speak up, or write in when you see them in print."

• • • • •

"Mr. William Nelson of Long Island City, N. Y., writes in that Mr. Kelly said one could make a metal cutting saw by tapping the back of an ordinary saw with a file. This, he says is not a complete description, because it does not produce teeth. Small teeth should be filed on the back edge of the saw. He writes that there should be twelve to the inch starting about 4 or 5 inches from the end. File them like a metal or rip saw and anything from a nail to a ½-in. bolt can be cut without spoiling the saw. Set saw just enough for balance."

• • • • •

"R. & A. write in that they manufacture roofing tile and understand there is some sort of salt used to accelerate setting. The material referred to probably is Calcium Chloride which is sold by all dealers in building materials. It also is advertised in BUILDING AGE AND NATIONAL BUILDER. If used according to directions it is not detrimental to concrete. There are several other preparations advertised, some of which are very good and some of which should be experimented with before adoption."

• • • • •

"J. P. M. says: How would you advise me to go about the cleaning of soot and other atmospheric materials deposited on dry pressed brick walls? Methods used for new brick work are ineffective. Hydrochloric acid seems to make the condition worse."

"Close material, such as pressed brick, is apt to be rather absorbent because of the fine pores, therefore it is seldom advisable to clean such surfaces with liquids. It is preferable to do the cleaning with a sand blast or by rubbing with carborundum blocks. Some of our readers may be willing to give their experience to the Building Counsellor."

• • • • •

"E. F. A. is in a quandary about hanging doors, and asks three questions. First he wants to know whether the rabetted side of a front glazed door should be on the inside or on the outside. Secondly he wishes to know on which side of the door he should place the ledge, and; thirdly, he would like to know if, in hanging a pair of outside French doors whether the right hand or the left hand door should open first in going in from the outside."

"The rabetted side ordinarily is on the inside and the position of the ledge will be determined by the side on which the door swings. Ordinarily the right hand side will open first in the case presented of French doors. Cases may arise in which different procedure would be better and our readers may be able to tell us about them."

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Talks with and Correspondence from Our Readers

"J. F. M., Bayhead, N. J., has a concert bulkhead along one side of his home lot which is located on a brook wherein the water rises and falls with the tides. Between high and low water mark the concrete is disintegrating. He thinks it is due to frost action and asks for information regarding some mixture that may be used to fill the bad spots so frost will not attack them."

"If the water is fresh the trouble is very likely disintegration of the concrete, a purely mechanical condition not very difficult to remedy. Cut out all the bad concrete and refill with a rich and dense mixture."

"If the bulkhead, however, is washed by sea water there is a combination of disintegration of the concrete together with decomposition of the cement used in making the concrete."

"Disintegration alone can be wholly prevented by first class workmanship in making the concrete. Materials must be selected with great care. Ready mixed gravel should not be used. Separate the materials by screening and then mix them in definite proportions so the fines will fill the voids in the coarse aggregate. After determining the remaining voids over-fill them at least ten per cent with the best quality of portland cement. Concrete used in such situations must be far better than average concrete."

"Uses much less water than is customary. The resulting mixture should be sticky and pasty and a little bit hard to push off a shovel into the forms. It should never be thin enough to flow. Keep all salt water out, therefore deposit it only at low tide. Work rods and spades well into it after depositing, in order to increase the density. If there is any chance that it will be covered by high tide stop depositing concrete at least three hours before the tide may be high enough to cover it. Before depositing new concrete after th tid has receded wash the surface carefully with fresh water and put on a layer of neat cement mortar to form a tight joint between the old and new work."

"Concrete thus made should be used for all work done from a level one foot below low water to an elevation of at least one foot above high water. Work thus done should not be affected by frost action between low and high water. It should be examined carefully from time to time and cracks should promptly be filled with asphalt or tar applied with a brush. The use of a guaranteed integral waterproofing compound in such concrete is recommended."

"Decomposition of concrete exposed to sea water is due to the use of portland cement having too much free lime. An excessively high lime content causes unsoundness in the presence of sea water and alkali, therefore before undertaking such work it is advisable to get in touch with manufacturers of high grade portland cement and work under their advice. Not all manufacturers of portland cement make a cement that they will guarantee to stand in sea water. It may be made however, by adding silica to ordinary cement clinker in equal proportions and grinding the two together. This excess of silica combines with the excess free lime so that sea water entering the pores of the concrete cannot unite chemically with the excess free lime in the cement."

* * * * *

"J. T. H., Chicago, Ill., says he is living in a basement apartment and is having trouble with dry rot which appeared after he put down linoleum according to standard specifications."

"Linoleum, or any other closely adhering floor covering, prevents the free circulation of air that is absolutely necessary for the prevention of dry rot in wood exposed on the uncovered side."

"Manufacturers of linoleum advise against laying it on any wooden floor that has an open air space of less than 18-ins. below the wood, unless the underside of the wood is coated thoroughly with a waterproof preparation. They will not guarantee linoleum laid on basement floors. They will not guarantee linoleum laid on a floor, either of wood or concrete, that is in contact with the ground. They advise against the laying of linoleum on concrete floors laid on the ground, even when they are waterproofed on the lower surface."

"This is not the fault of the linoleum but is, rather, an evidence of its good quality. Wood must have air if any part of it is exposed to moisture and dampness. Dry rot sets in when wood is exposed on one side to moisture and on the other side is kept dry and warm so that excess moisture evaporates readily. If there is but little moisture and the upper surface of the wood is covered closely with linoleum, the moisture is not able to escape and rotting of the wood is the logical result."

"Sometimes slight dampness may be cured by covering the surface of the ground underneath the floor with a six inch layer of lime, broken into pieces about the size of walnuts, or with a layer of hydrated lime. After letting this lime remain in place three or four weeks, preferably during dry summer months, cover the underside of joists and flooring with hot asphalt or tar. If rotting, however, has started before this cure is applied the tight floor covering should not be replaced. It is best then to oil the floor with a carbolineum oil, following the instructions of the manufacturers."

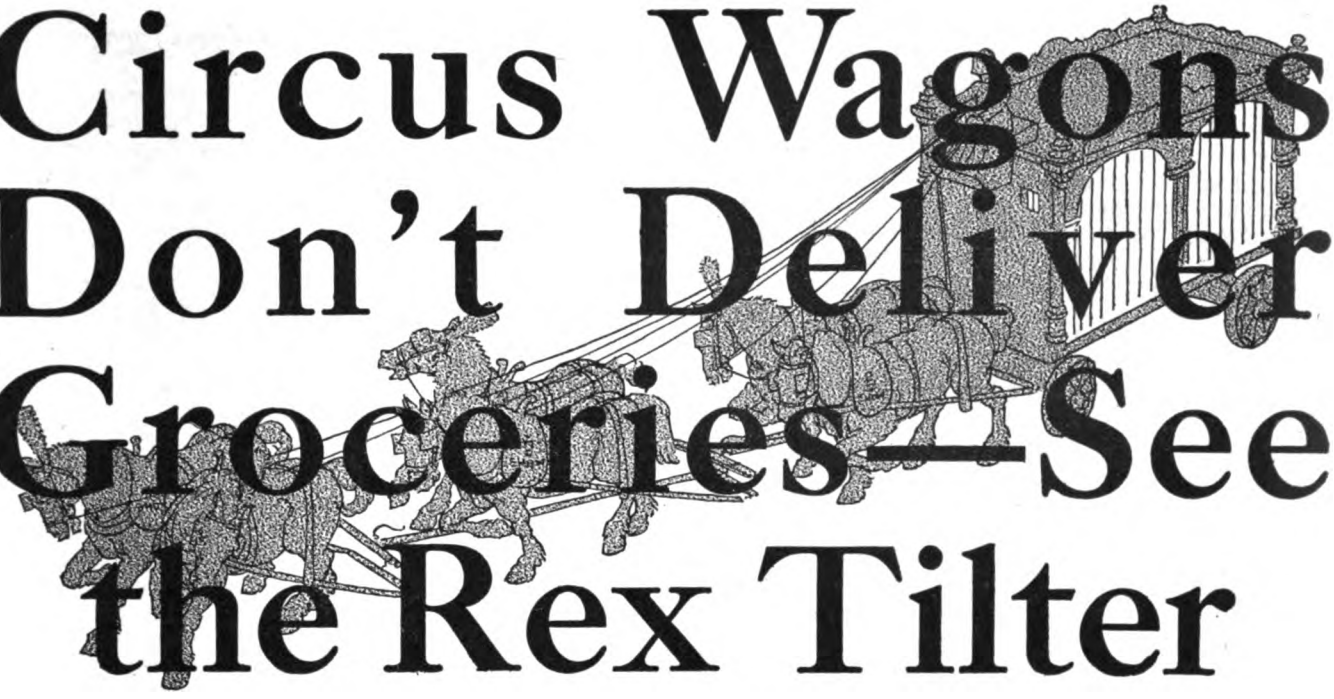
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"M. J. has a grievance against sash manufacturers. He asks why the putty put on by the manufacturers will not stay on the sash until after a carpenter has hung and fitted them.

"This appears to be another bobbing up of the specification problem. The trouble lies usually with the specifications under which sash are purchased. Do not be too ready to blame manufacturers when competition is keen and specifications are incomplete. Require manufacturers, in specifications you send them, to prime the sash with linseed oil, or, preferably, with white lead paint before glazing and to paint the putty as soon as the sash is glazed. Unpainted wood robs the putty of oil. Painting putty prevents oil being evaporated from the exposed surface."

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Circus Wagons Don't Deliver Groceries—See the Rex Tilter



Circus Wagons aren't used to deliver groceries. They are too big, too heavy, and too awkward—and they're too slow. Does any contractor want a concrete mixer for light work that's built on the *Circus Wagon Idea?*

But if you are interested in a fast, handy, quick-moving mixer that pours anything up to 40 yards of concrete per day, HERE IS A MACHINE WORTH LOOKING OVER.



The Rex ½-bag Tilter is light and easy to handle. You can pull it around like you would a light weight trailer.

The engine balances the drum and chassis. One hand lifts the tongue. And when you have parked the Rex Tilter, the tongue slides up under the frame—out of the way.

Operates Speedily

You can tilt the oversize drum easily and quickly with the big hand wheel. And that drum is set low to make shoveling easy and yet is high enough to permit discharging into any wheelbarrow.

A 2 H. P. Stover horizontal engine supplies more than enough power. And it is equipped with a Wico high tension mag to keep it running smoothly and sweetly all day long.

Springs Save the Mixer

The Rex ½-bag Tilter has spring-hung axles that take up the bumps of travel.

It rides as though mounted on pneumatic tires—but there are no punctures or blowouts.

Take a good look at this Rex Tilter. It mixes mortar as well as concrete. The price is so exceptionally low that it will surprise you.

The price delivered on your job and full information on this full ½-bag Tilter or any other Rex may be had by checking the coupon.

Send it Today

CHAIN BELT COMPANY
723 Park Street, Milwaukee, Wis.

Check the size Rex in which you are interested and a booklet containing complete information on it will be mailed to you.

☐ ½-bag Tilter ☐ ½ to 1 bag Rex 5-S
☐ 1 bag Rex 7-S ☐ 2 to 3 bag Rex 14-S
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CHAIN BELT COMPANY, Milwaukee, Wisconsin

REX MIXERS

MORE YARDS PER DAY

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New Telephone Building Unusual Feat

(Continued from page 117)

ters involved a task equally great. The space requirements of each department were mapped out on blue prints prior to moving and all furniture, office equipment and supplies clearly tagged and keyed with number. For a period of four months some 1,600 vans and truckloads shifted everything into the new building.

A force of 50 persons is required for the maintenance of mechanical equipment and the maintenance of elevator, plumbing and electrical plant. Supervising the work is a building engineer, one assistant in charge of all the electrical plant and another assistant in charge of the heating, ventilating and plumbing equipment.

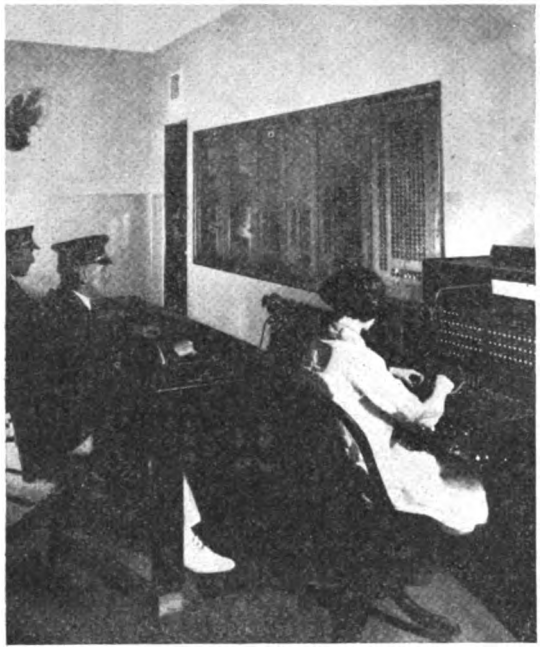
In every respect the work of building and equipping this immense skyscraper has been of the most modern. In elevator facilities the system represents the very best that has yet been evolved in vertical transportation. Twenty-four elevators, ranged in four banks, are supplemented by three cars used for special purposes. These are supervised from a dispatcher's office like a railroad of transit system. In his office adjoining the main corridor the chief dispatcher is informed of the exact position of each car by rows of signal lights. Other lights indicate the floors where passengers are waiting and ringing for service. The two largest banks of elevators, eight cars in each, are entirely push button control. These are used for express cars, serving floors above the 16th and between the 10th and 16th respectively.

These are entirely automatically controlled. As the elevator stands at the main floor the operator presses a button for the floor on which each passenger wishes to get off. The operator starts the car and when the first floor for which the button has been pressed is reached, the car stops automatically and the door opens.

On either up or down trip as soon as the intending passenger presses a button on a floor the call is registered on the elevator control board in the dispatcher's office. The first car traveling in the right direction stops automatically and the door is opened without prior knowledge on the part of the operator.

All elevators, installed by the Otis Elevator Company, are provided with ample safety devices for the protection of passengers. All signally controlled elevators were installed with a self leveling feature which automatically levels the car at the floor landing. This eliminates danger of passengers tripping as they board or alight from cars.

Four mechanics are required to keep elevators in running order and to regulate the mechanical controls, while a force of 31 operators with 4 starters, 2 dispatchers and 1 chief dispatcher is required to operate the system.



A CHIEF DISPATCHER and two assistants control the travel of twenty-four elevators arranged in banks. Sixteen of the largest cars are controlled automatically by dispatchers

There are many angles from which this elaborate and fully equipped building has relation to the building industry. First it represents a structural project altogether out of the ordinary but characteristic of the excellent work that is being done in skyscraper building today.

Another element is the vast importance exercised by the telephone system on the work of the building. Compared to conditions half a century ago, the builder today is in an eminently better position in so far as his contact with the field is concerned. The general contractor is the individual to whom phone conversation, and particularly long distance calls mean the most. At all times he must be in touch with the owner, architect, building superintendent, building department officials, his bank, etc. This would entail an immense amount of work were it not for telephone facilities.

STILL another important phase in the work of the general contractor lies in his ability to follow up shipments for the job. More than often these come from out of town places and it is up to him and up to his office to see that the material is there at the proper time.

When a breakdown of a piece of equipment occurs, replacement is usually best done over the wire. It has become a common practice for the contractor to install telephones on practicaly every job whether large or small. He can be in constant touch with his men at any time of the day. The value of these facilities applies with equal force to sub-contractor, equipment man, material man, architect and owner. Each has at hand the instrument of saving many hours of valuable time in personal calls and solicitations.

The telephone is in so constant use today that it is often forgotten how modern and how representative of present day progress it is. It is best brought home by a consideration of this immense new telephone building necessary to house the workers of equipment needed for only a small portion of the country's subscribers.

A development that was unthought of a century ago has now become an industry rated among the foremost of the country in capital and yearly income. It is typical of 20th Century progress that this comparatively recent addition to American Business should create a new and outstanding silhouette in New York's skyline.

To the building field this structure is another indication of the competency and prowess of present day construction men.

Every day new problems are solved by those who are building these towering structures. Here they have laid a foundation for 32 stories on ground that has been "made" within the history of the city. They have done more than erect one huge building . . . they have added to structural knowledge.

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FLOORS

Hard-wood, Soft-wood
Open-grain, Close-grain

Dance Floors
Linoleums *Rubber Tile*
Cork Carpet
Cork Tile *Magnesite*
Mastic *Terrazzo*
Cement

ALL FLOORS

HOW to finish them. Where and When and *Why* to use Filler, Varnish, Wax, Shellac, Oil, etc. Covering capacities, Proper methods of cleaning and refinishing. A gold-mine of practical information for Builder, Contractor or Architect.

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MASONRY
Practical Information on Materials and Latest Construction Methods



Some Suggestions for Good Plastering

By J. S. Elwell

SUCCESSFUL plastering is more dependent on good work by other trades than is generally realized. It is difficult to impress on those outside the building trades just how dependent the plasterer is on the other mechanics and materials that enter into the modern house.

Many homes and apartments are, unfortunately, constructed with the idea of building at the lowest possible cost without regard to other considerations. This is not only poor economy, but has lead to unethical practices, or at least low standards, on the part of many builders.

The Department of Commerce, Fire Underwriters and Municipal Building Departments all recognize this tendency and are trying to correct it by recommending or adopting codes and building restrictions designed to prevent the misuse of building materials.

In general, it is only on the largest jobs that the owner maintains efficient inspection. The ordinary job, even though designed by an architect or engineer, is usually left to the mercies of a contractor that has been forced into giving too low a bid by keen competition. Inspection or superintendence, if any, is limited to short, semi-occasional calls by the designer, which are devoted more to explaining or defending plans than to intelligent observation of the quality of the work under way.

As a general rule, we only get what we pay for, and this applies to the building industry more rigidly than to any other business. Reasonable construction can only be obtained by paying a reasonable price, and cheap or dishonest construction is generally a result of lack of understanding on the part of owners.

There is no single place where the results of good or bad work shows up as it does in plastering. If the general construction is neglected or skimped either through ignorance or design, the results are shown by unsightly cracks or even by dangerous falling of the plaster. Some of the faults that may cause unsatisfactory plaster, without fault in the plaster itself, are:

Small or shallow foundations under posts or basement walls; too small sills or too few bearing posts; joists or studs too small or with too great a spacing; a single light joist under partitions (is not sufficient); improper or too light framing over wide openings; chimney not built independently of footings and frame; improper headers over door or window openings; rafters not tied and joists not braced; stud bracing neglected, especially at corners; use of green lumber (without allowance for shrinkage).

Any of the above are sure to produce cracks in a quick-setting plaster and even a slow-setting plaster which tends to adjust itself to minor movement, is not entirely proof against such shortcomings. Plaster does not crack of itself except for two reasons, under-sanding and drying out too rapidly.

THERE are several causes that contribute to plaster failures, due to lack of knowledge or carelessness of the mortar man or the plasterer. With any plastering material, the mortar must be well mixed and the backing, wood lath, block, brick or concrete should be damp before it is covered. Wood lath should be of good quality and spaced far apart to insure good keys. Laitance must be removed from concrete and oil, dust and dirt from brick or block.

Whatever plaster is used, more than half of it, as it finally stands on the wall, is sand, just sand. The advantages of the various plasters are disputed at great length, but the quantity and quality of the sand receives little attention or thought. There are three things that would go far to insure better plastering if they were watched more closely.

First: Clean Sand
Second: Coarse Sand
Third: Measured Sand

MORE than a small (say five) per cent of clay, silt or organic matter is liable to cause discoloration or even disintegration. These defects may not show at first but sometimes develop after months or even years. Wall decorations, one twentieth of which were defective, would not be tolerated, and yet, that is just what dirty sand means. Why permit it?

Coarse sands usually make better walls than do fine sands. It is evident that the finer the sand the more surface there is to the grains in a given measure. No one would expect to paint a house with one gallon of paint, yet there are those who use very fine sands and expect their plaster material to cover unlimited sand areas.

Measuring the sand seems to be a very simple matter, but due to the effect of moisture it is most difficult. For example, take a cubic foot of dry sand, weighing about 100 pounds and add three pounds of water to it. Mix thoroughly and put it back into the original measure. It will be found that there will be almost one-third of the sand left over or about 30 pounds that will not go back into the measure.

Again, a No. 2 shovel of dry sand weighs about eleven pounds, while the same shovel with damp sand (about 3% moisture) will hold twenty-three pounds, or about twice as much.

Plaster specifications are written for dry sand and allowance must be made for moisture content. Experience has shown that the shovel

(*Please turn to page* 154)

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KOHLER-equipped houses built by C. W. Wright, Kansas City, Mo.; Edgar C. Ferris, Kansas City, Architect. Kohler fixtures supplied by U. S. Supply Co., Kansas City, Jobbers; installed by Laitner Bros., Kansas City, Plumbers

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Correct Treatment of Exteriors and Interiors

(Continued from page 137)

or where it does not extend along the whole elevation, the roof and wall join in a closed cornice. Wide eaves disappeared along with the mediaeval roof, and in their place came the cornice treated with modillions, dentils, corbels or other enriching details.

WE are accustomed to think of Southern dwellings as having extremely high rooms. As a matter of fact, the proportion of ceiling-height to floor-space is not as great as in the James River Colonial style, though the modern home-owner, if he selects this type to follow, will do well to plan draperies and wall-treatment to give an effect of height and dignity. A more important difference between this type of house and the others which preceded it is that odd-shaped rooms frequently were introduced into post-Revolutionary houses. As in the Georgian style in England, circular, oval or octagonal rooms often are features of the plan.

Reflecting this tendency, there was a greater freedom in the design of staircases. Sometimes these circled gracefully around a stair-wall; in other houses, they traveled upward in a broad curve. Often there were no walls beneath them, the self-supporting effect being one of the novelties of the time. In general, the treatment of newel-posts and balusters was lighter than in previous periods, and the tendency was toward more regularity in the turned woodwork.

Floors were of the same general kind as those in the homes along the James River. Ceilings almost universally were ornamented with moulding plaster, usually rather light and in the Adam or some related Georgian style of design.

Three types of wall-treatment were used. Perhaps the most common was the plain plastered surface, either white or lightly tinted, which was felt to be most expressive of the Greek ideal cherished by the designers. The next most popular, and perhaps the most beautiful, was the wall-hanging of brocade or other fine textile. Delicate yellows, pinks, greys, greens and blues were the favored colors; and, where silks of this nature cannot be afforded today, wall-papers which reproduce textile motives are suitable, for they frequently were used in the originals of this style. Paper, indeed, was the third type of wall-finish em-



A VIEW across the hall, looking into dining room of Anderson residence, Richmond, Va. Here, the artistic proportioning of every detail is brought to light. The mantle is a masterpiece of design and good craftsmanship. Photo: Tebbs & Knell

ployed, and scenic and floral designs were most popular.

Cornices continued to be used. In the work of Thomas Jefferson and some other architects of the time, these were of heavy proportions, reproducing the Renaissance styles exactly; but most of the cornices were lighter and more graceful than this. The old wainscoting to the chair-rail height disappeared. In its place, came the simple baseboard. Sometimes the chair-rail was retained, but gradually it, too, was discarded.

STILL another Classical effect was the employment of pilasters on the walls. These most frequently were of Ionic or Corinthian order, and had capitals which supported either the cornice or, in the higher and more formal rooms, frieze-bands with Adam or similar designs. Often such pilasters stand on either side of the tall doorways, supporting pediments or broken scroll-pediments.

Another use for pilasters was in connection with the chimney-pieces. It was customary for these to project slightly inward, with a pilaster at either end, the mantel carried rather high and the over-mantel paneled with moulding plaster. The fireplace itself, usually was of white or colored marble or wood painted to resemble these stones. The opening was framed with pilasters or colonettes with a frieze above, into which carved wood or stone or moulded plaster placques of mythological scenes were set. In place of the old wrought-iron andirons of the earlier Colonial period, these hearths were equipped with a full complement of brass accessories, contributing to the general effect of refinement. For modern use, brass fits in harmoniously with room decorations and furnishings.

THIS effect was completed by the furniture. The first style that made itself felt in this country was the Chippendale. This was followed now by pieces of Adam, Sheraton or Hepplewhite design, which characterize the interior decoration of the Southern Plantation style as one of the most beautiful in the history of America's own architecture.

In a later issue, the James River Colonial will be described and illustrated. Both of these Colonials are of American origin but of the two, James River is the more adaptable to modern needs.

Suggestions for Good Plastering

(Continued from page 152)

measure is as reliable as the box method but either must be corrected, for all sands as used on the job contain some moisture.

As the cementing material is only to bind grains of sand together, it is most important that the proper amount of clean, well-graded sand be thoroughly mixed with the plaster.

In conclusion, use only the best of lath, spaced not less than 3/8" apart with broken joints every seven or eighth lath; nail securely on studding not over 16" apart, and see that the lath are wet down.

Use only clean, coarse, well-graded plastering sand in the proper amounts, and see that all solid backing is clean and not bone dry.

Hire good mechanics and pay a fair price.

Sound and heat proof walls, built of a porous and not too rapid setting plaster, are warmer in winter and cooler in summer.

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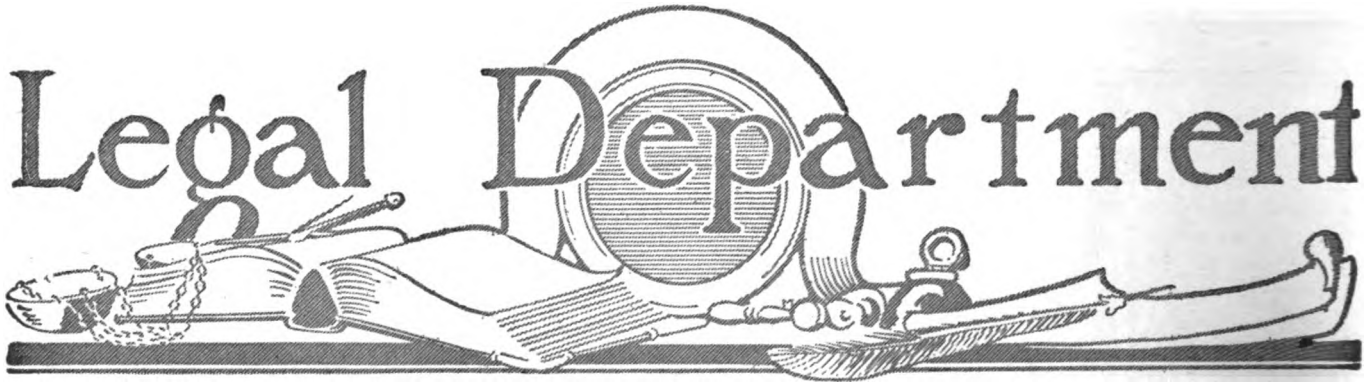
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Some Local Aspects of Party Walls

By Arthur L. H. Street

OUR Legal Editor, has helped many readers in the unraveling of legal tangles. Perhaps a word or two of advice is all that is needed in your case. Take advantage of this reader-service; it is free and gladly rendered on every problem.

A OWNS a building with the wall built flush with line of adjoining lot," writes a New York builder. "B purposes building on the adjoining lot. If A grants B the privilege of using his wall as a support for beams and joists, thereby making it a party wall, how should the contract be worded, in the shortest form to protect both parties? Should it be recorded in the county clerk's office?

"If B's building is of the same height as A's, and supported on steel columns, is there any law preventing B from plastering on A's wall, if the wall is just exactly on [flush with?] lot line, permitting B to use the space that otherwise would be used by the masonry wall for business purposes?"

Such a contract should be drawn specially by an attorney, with a view to the particular circumstances of the case, since it will usually be found important to include one or more specific conditions. For example, if it is desired to plaster the wall that should be specified.

The following is probably as brief a form as should be used in any case. Additions readily may be made, by including such special clauses as may be agreed upon:

"This agreement, made this 22nd day of January, 1926, by and between John Smith, of Cohoes, New York, first party, and Richard Roe, of Cohoes, New York, second party, witnesseth, that whereas the first party owns [here give legal description of lot], and the second party owns the lot adjoining on the north, to wit: [describe second party's lot], on which last-mentioned lot the second party intends to erect a —— story brick building. Now, therefore, the first party, in consideration of the sum of ———— Dollars to him paid, the receipt whereof is hereby acknowledged, does hereby grant to the second party, his heirs, executors, administrators and assigns, the right, in erecting said building to insert the beams and joists thereof into the north wall of the building on the lot owned by the first party as aforesaid, and that such beams and joists may so remain so long as such wall shall stand. The grant aforesaid shall run with the land and bind the parties hereto, their heirs and assigns.

"In witness whereof the parties hereto have hereunto set their hands and seals the day and year first above mentioned."

The contract should be signed, witnessed and acknowledged in such form as entitles an instrument to record in the particular state—the form used in connection with deeds. It should be recorded, especially from the standpoint of the second party, although the projection of the beams, etc., into the wall would probably be held to give notice to the world of the second party's rights therein.

Should owner of wall desire to reserve the right to take down the wall before the same may decay the reservation should be made in express terms. The amount of consideration paid by the second party would naturally have some bearing in determining the fairness of such reservation. Or the circumstances might call for an agreement on the construction of a new party wall on the first party's present building being dismantled.

Under circumstances stated by our correspondent, right to plaster wall would seem to follow as a matter of implied agreement. Permit to insert beams and joists in the wall should be interpreted as enabling the second party to build upon the wall much the same as he would be free to build if it were constructed as part of his building. Limitations on this right should be expressed in the agreement, if any are intended to be enforced.

But without express limitations, there would be implied obligation on the part of the second party not to do anything tending to impair the safety of the wall.

Important Phase of Lot Purchases

A LESSON for lot purchasers is afforded by the experience of an Ohio reader. The salesman of a lot represented to the gentleman from Ohio that a driveway laid out along the lot line was one-half on each lot, thereby making it joint property. The representation was naturally relied upon, since the driveway was so constructed as to serve a garage on each lot. Now, it is discovered that the driveway proper is all on the adjoining lot. The aggrieved lot purchaser has not fully paid for the lot and asks what he should do.

Demand should be made upon the company which sold the lot to secure title to one-half of the driveway and convey it with the lot purchased. If this demand be not complied with, a claim for damages should be made against the company. In order to lay a basis for the assessment of damages, the gentleman should ascertain at what price the owner of the adjoining lot will grant a perpetual right of way over the driveway.

That cost is the fair measure of damages recoverable. If the adjoining owner refuses to convey and has not already precluded himself from preventing further use of the driveway by our friend, the proper measure of damage recoverable against the company is the difference in the fair market value of the lot with and without the driveway represented to exist.

But since the driveway has a branch leading to the garage on the particular lot, it may be found that the owner of the adjoining lot has expressly or impliedly granted a license to use the driveway which cannot be revoked. In that case the damage would be nominal at most.

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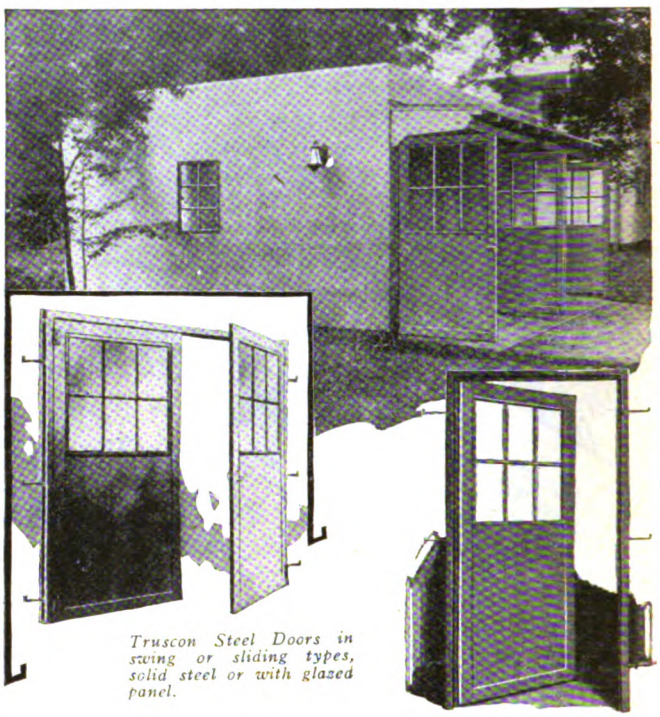
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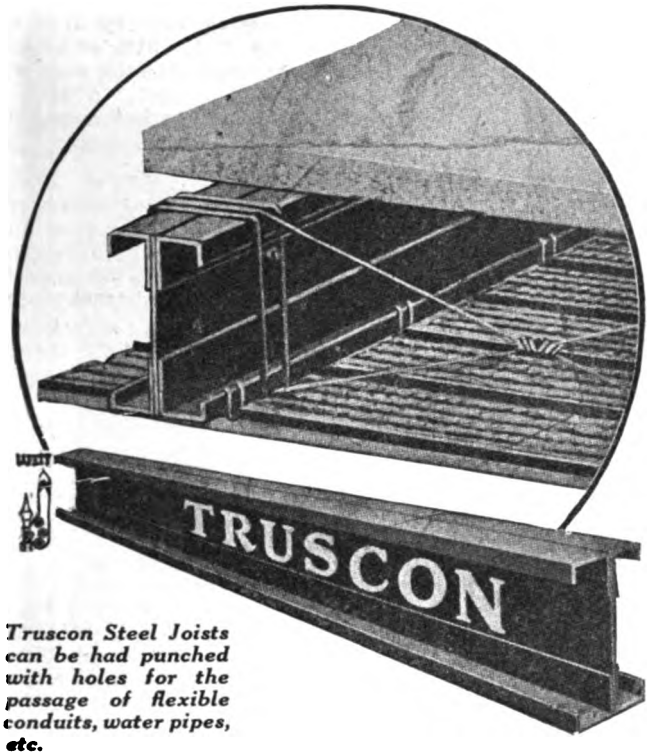
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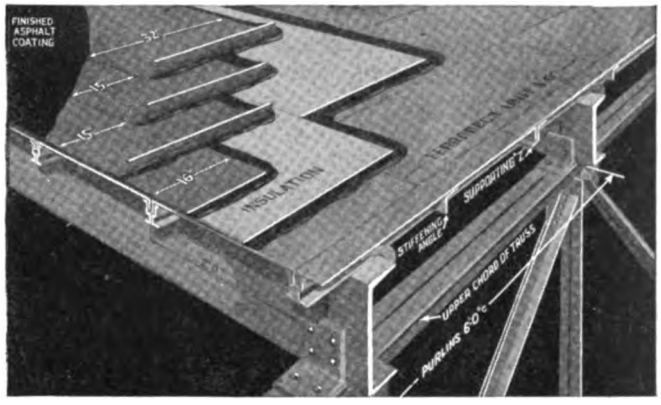
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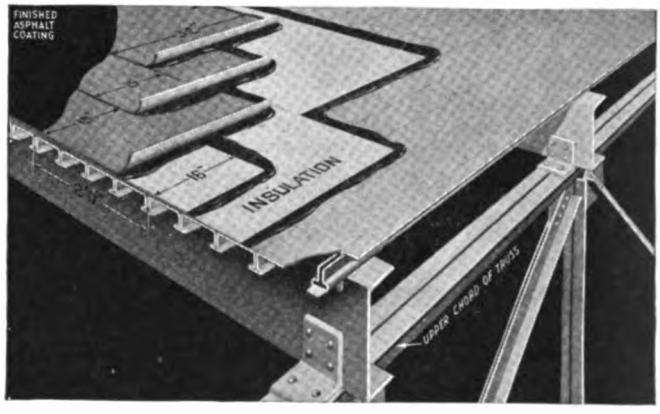


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Review of Building Situation

CONSTRUCTION contracts in August showed a big increase in the 37 states reporting. The total, $600,808,000 was the second largest monthly total every reported according to F. W. Dodge Corp. August, 1925, the record monthly total exceeded August this year by only 2%. The increase over July, 1926 ran 18%.

The most important items in the August contract record were $223,292,100 or 37% of all construction for residential; $125,682,900 or 21% for public works.

Reported for the past 8 months were construction contracts to the extent of $4,247,808,400, an increase of 9% over the corresponding period of last year.

New England District

The July figure was exceeded by 8% in this District. Total contracts, $44,634,500, fell below August last in practically the same ratio. 36% went for residential and 21% for commercial.

For the first 8 months, contracts were awarded to the extent of $296,208,700, 7% below the January—August period, 1925.

New York District

The highest monthly total since April, 1926, was represented in the $153,701,200 figure. This is a nincrease of 39% over the previous month. Compared to August last, the volume showed a decline. Residential construction commanded 50% and public works 27%.

A gain of 21% as compared with the same period last year was computed in the $1,160,070,000 volume for the first 8 months of 1926.

Mid-Atlantic District

The contract total, $61,475,800, showed a gain of 26% over the previous month and 19% over August last year. Residential contributed 42%.

Another large gain over last year's figures was represented in the total for the first 8 months. This volume ($426,505,400) was 13% in excess of the same period of 1925.

Pittsburgh District

Construction was started to the extent of $63,528,100, falling below July, 1926 and August last. Of the total, public works took 36% and residential 29%.

Reporting districts comprise the following states:

New England District: New England States.
New York District: New York State and Northern New Jersey.
Mid-Atantic District: Eastern Pa., Southern N. J., Md., Del., D. of C., Va.
Pittsburgh, Dist.: Western Pa., W. Va., Ohio, Ky.
Middle West District: Ill., Ind., Iowa, Wis., Mich., Mo., Kan., Neb., Okla.
North West District: Minn., N. and S. Dak., and Northern Mich.
South Atlantic District: N. and S. Car., Ga., Fla., Ala., Miss., Tenn., Ark., and La.
Gulf District: Texas.

Middle West District

This district broke all previous records. $196,030,500 in contracts were awarded, exceeding July by 27% and August last by 57%. 31% of all construction went into residential work with industrial second at 20%. A 14% increase over August last was represented in the $162,282,300 contemplated.

North West District

A gain of 11% over the same month 1925 was balanced by a loss from July, 1926. Of the total, $8,571,200, awarded, residential took 34%. In contemplated projects the total exceeded July by 27% and last August by 25%. A further increase showed in the total for the first 8 months. This gained 10%.

South Atlantic District

The total $46,104,300, fell below July and last August. Public works commanded 32% and residential 27%. A gain of 8% was shown in the $533,709,400 volume for the first 8 months.

Gulf District

The August figure exceeded July of this year by 52% and exceeded August, 1925 by 24%. The total, $26,762,400, gave 36% to residential and 25% to public works. An increase of 76% above August last and 18% over this July was found in the total for contemplated projects. A further gain of 31% was computed for the first 8 months total. This was $167,605,500.

Record of August, 1926, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$9,200,400	$12,198,800	$10,281,200	$7,631,100	$31,837,700	$841,500	$6,245,300	$3,106,500	$81,342,500
Educational Buildings..	3,838,700	4,865,400	9,255,800	5,127,800	14,016,300	1,059,400	2,742,400	1,218,200	42,124,000
Hospitals, etc.....	2,356,000	7,296,100	945,000	624,500	5,048,600	318,000	380,800	125,000	17,094,000
Industrial Buildings...	6,164,500	5,368,500	1,950,300	6,378,500	39,493,700	303,000	4,390,200	4,230,300	68,279,000
Military and Naval....	229,000	7,100	37,600	.....	55,000	.....	725,000	.....	1,053,700
Public Buildings.....	299,100	691,400	299,600	221,000	1,100,300	315,000	1,544,300	84,000	4,554,700
Public Works.....	4,702,600	40,932,600	6,385,200	22,875,300	27,336,800	2,070,100	14,774,900	6,605,400	125,682,900
Religious & Memorial..	1,139,900	1,826,500	2,195,500	1,487,000	2,145,000	481,500	1,176,600	270,300	10,722,300
Residential Buildings..	16,151,800	77,337,600	26,085,900	18,350,900	60,127,500	2,910,700	12,660,000	9,667,700	223,292,100
Social & Recreational..	552,500	3,177,200	4,039,700	832,000	14,869,600	272,000	1,464,800	1,455,000	26,662,800
Total	$44,634,500	$153,701,200	$61,475,800	$63,528,100	$196,030,500	$8,571,200	$46,104,300	$26,762,400	$600,808,000

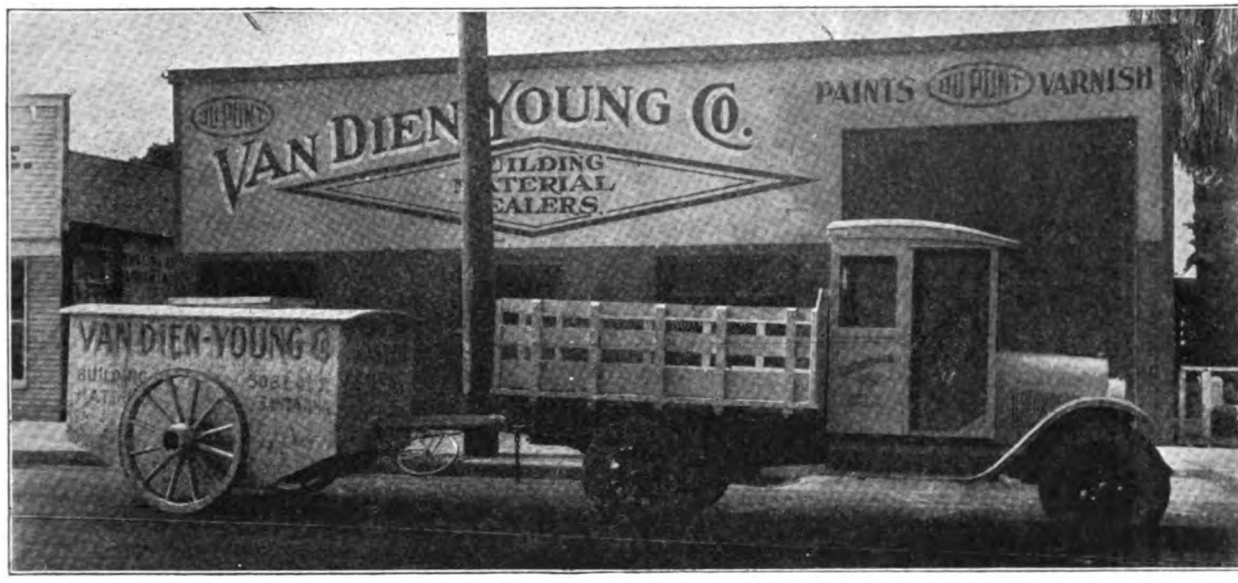
Building Projects Contemplated, August, 1926

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$3,845,400	$20,871,300	$5,758,800	$6,849,900	$22,815,200	$1,118,000	$7,357,200	$7,416,900	$76,032,700
Educational Buildings..	1,865,500	3,511,400	2,352,200	1,906,000	6,050,900	1,745,700	2,379,700	1,337,800	21,149,200
Hospitals, etc.....	96,000	2,329,000	1,033,000	942,000	3,839,000	58,000	452,000	88,000	8,837,000
Industrial Buildings...	4,944,500	6,650,600	4,619,300	5,111,000	11,813,600	698,000	5,824,200	1,018,300	40,679,500
Military and Naval....	.....	55,000	35,000	800,000	5,0000	.....	.....	.....	895,000
Public Buildings.....	95,000	820,000	459,200	1,129,000	2,042,700	410,000	503,100	61,000	5,520,000
Public Works.....	2,012,900	16,657,500	4,790,000	18,807,800	30,909,700	2,176,800	20,849,100	9,254,000	105,457,800
Religious & Memorial..	1,397,900	1,671,200	1,184,500	550,500	3,757,500	90,500	1,628,000	246,000	10,526,100
Residential Buildings..	15,632,500	103,020,400	32,444,100	18,417,700	67,174,700	4,867,400	18,540,700	9,131,100	269,228,600
Social & Recreational..	1,345,500	5,483,000	3,978,500	1,356,000	13,874,000	151,000	4,139,700	2,761,000	33,088,700
Total	$31,235,200	$161,069,400	$56,654,600	$55,869,900	$162,282,300	$11,315,400	$61,673,700	$31,314,100	$571,414,600

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for Economical Transportation

CHEVROLET



Making Good in the Building Field, Too!

Each day brings to light some new record of the remarkable economy of Chevrolet truck units—some new measure of their amazing endurance and reliability in every field of activity!

The most recent evidence of the reasons underlying Chevrolet's ever-increasing popularity in the building field is supplied in a letter received from the Van Dien-Young Co., building material dealers in Santa Ana, California. They say:

"For quick deliveries of small lots of building materials, the Chevrolet 1-Ton Truck is completely satisfactory in every way. We expect to use it for several years to come—and will replace it with another Chevrolet when necessary."

If *you're* in the market for new or additional delivery equipment you can safely let the experience of the Van Dien-Young Co. guide you in your purchase—because their success with Chevrolet trucks is typical of the satisfaction enjoyed by Chevrolet owners everywhere!

Providing such essential truck-type advantages as rigidly braced channel steel frame; extra-leaved rear springs set parallel to the road; oversize brakes; extra-strong rear axle; reliable semi-reversible steering control; positive three-speed transmission; powerful valve-in-head motor; water pump and combination pump and splash system of lubrication, the Chevrolet Ton or ½-Ton Truck can't fail to give you uninterrupted delivery service at low cost.

See your nearest Chevrolet dealer—get all the facts and figures—ask for a demonstration! Then you will understand why builders all over America are standardizing on Chevrolet.

CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN
Division of General Motors

½-Ton Truck (Chassis Only) $375 1-Ton Truck (Chassis Only) $495

Prices F. O. B. Flint, Michigan

World's Lowest Priced Gear-shift Trucks

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country. These prices are presented primarily to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices at which the average contractor can buy, but are quoted to show him the movements of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted. Followed in conjunction with the Review of Building Situation they will prove invaluable indexes of conditions.

NEW YORK PRICES

	Aug. 25	Sept. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring 25/32x2⅜" Face	$85.00	$85.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05 12x12', 10' to 20'.....	53.50	53.50
B. & Btr. Partitions, ⅝x3¼ in.....	58.00	58.00
B. & Btr. Ceiling, ½x3¼ in.....	44.00	44.00
B. and Better Finish, 1x4 in.....	68.50	68.50
No. 1 Common Boards, 1x8.....	50.00	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$61.00	$62.00
Roofers, 13/16x6 in.....	33.00	33.00
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3 in...	$66.00	$67.00
No. 1 Clear V. G. Flooring, 1x4 in.....	65.00	66.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	40.50	40.50
No. 2 Clear and Better Drop Siding, 1x6 in.....	52.00	52.00
No. 2 Clear and Better V. G. Stepping.....	88.25	88.75
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.18	$7.16
Washington Perfection Shingles, per M.....	6.68	6.63
Clear Bevel Siding, ½x6 in.....	45.00	45.00
CANADIAN SPRUCE—		
No. 1 Lath, 1½ in.....	$7.75	$7.50
Dimensions 2x4, 10' to 16'.....	36.50	36.50
HARDWOOD FLOORING—		
Clear Quartered White Oak, 13/16x2¼ in.....	$142.50	$142.50
Clear Plain White Oak, 13/16x2¼ in.....	97.50	97.50
Clear Plain Red Oak, 13/16x2¼ in.....	90.00	90.00
Clear Maple, 13/16x2¼ in.....	94.00	94.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M, f. o. b. job.....	$20.70	$18.70
FACE BRICK—		
Tapestry (delivered)	$45.00	$45.00
Caledonian Grey (delivered)	45.00	45.00
Smooth Grey (delivered)	45.00	45.00
Fiske Lock, f. o. b. factory.....	40.00	40.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Steel Bars per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.	$3.25	$3.25
1½ in.	3.25	3.25
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots over 1,000 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd., delivered	$0.19	$0.19
2.8 lb.—24 gauge, light, price per 100 sq. yd., del.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per sq. yd., deliv. (Add 5 cents per sq. yd. for galvanized.)	0.31	0.31
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.60	$0.60
Masons, per 50 lb. bag.....	0.50	0.50
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.20	$2.25
¾ in. Gravel (per cubic square).....	3.15	3.25
1½ in. Gravel (per cubic yard).....	3.15	3.25
SHINGLES—		
Asphalt, Single (per square).....	$6.00	$6.00
Asphalt Strip (per square).....	6.50	6.50
STAINED WOOD SHINGLES—		
10 in.Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	10.70	10.70
18 in. Perfection (per square, delivered).....	11.70	11.70
24 in. Royal (per square, delivered).....	11.70	11.70
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.13	$0.13
6 in. (cents per foot).....	0.19	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per square at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½x8½ in., per foot.....	$0.34	$0.34
8½x13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8x12x12 in., heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel	$0.60	$0.60
PLASTER BOARD—		
32x36x⅝ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton	$45.00	$45.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft.....	$0.27	$0.27

CHICAGO PRICES

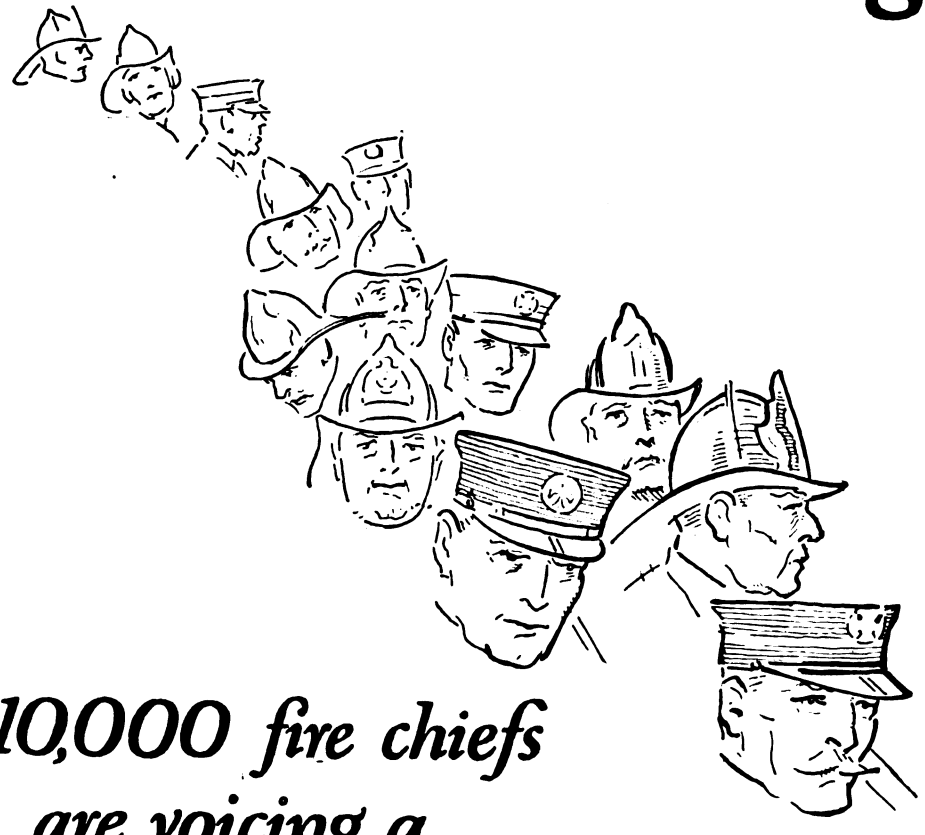
	Aug. 25	Sept. 25
YELLOW PINE—		
Boards, 1x8, No. 1 Common.....	$42.00	$42.00
Ceiling, ⅝x4, B. and Better.....	44.00	44.00
Dimensions No. 1, 2x4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1x6, B. and Better.....	53.00	53.00
Finish, 1x4, B. and Better.....	62.00	62.00
Flooring, B. and Better, E. G., 1x4.....	80.00	77.00
Lath, 4 ft., No. 1.....	6.50	6.50
Timbers, Long Leaf No. 1, 10-20 ft., 6x12 to 12x12	56.00	56.00
HARDWOODS—		
Maple Flooring, 13/16x2¼ in., clear.....	$96.00	$86.00
Oak Flooring, ⅝x2, Cl. P, White.....	60.00	60.00
Oak Flooring, 13/16x2¼, Cl. Pl., White.....	95.00	98.00
REDWOOD—		
Bevel Siding, S1S1E, 8-20', ½x4, clear.....	$35.25	$27.25
Finish, S2S or S4S, 1x6, 8-20', clear.....	74.50	72.50
WESTERN RED CEDAR—		
Bevel Siding, ½x4, clear.....	$36.00	$31.00
Shingles, extra clear, 16 in.....	4.11	3.91
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.10	$2.10
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

	Aug. 25	Sept. 25
YELLOW PINE—		
Boards, No. 1 Common, 1x4.....	$41.25	$41.25
Dimensions, No. 1, S1S-E, Short Leaf, 2x4 in., 12-14'	29.00	29.00
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10-12',.....	85.00	85.00
Flooring, B. & Btr., E. G., 1x3.....	76.00	73.00
Flooring, B. & Btr., F. G., 1x3.....	59.00	57.00
Lath, 4 ft. No. 1.....	6.13	6.13
Timbers, No. 1, rough, short leaf, 6x12 to 12x12 in., 10 to 20 ft.....	53.75	53.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1x6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 4 to 20 ft.....	34.25	27.25
8 in. Colonial, ⅝ in.....	47.25	45.50
8 in. Bungalow, ¾ in.....	66.75	56.75
HARDWOODS—		
Oak Flooring, ⅝x1½ & 2 in., clear, Qtr. White..	$102.00	$102.00
Maple Flooring, 13/16x2¼ in., clear.....	86.00	86.00
RED CEDAR—		
Siding, ½x6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.01	3.91
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.15	$3.15

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JOHNS-MANVILLE
Asbestos Shingles

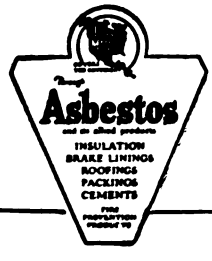


10,000 fire chiefs are voicing a demand for FIRESAFE roofs

AS surely as time passes, all fire authorities will ultimately demand fire-safety for every roof in thickly populated communities.

In the meantime many property-owners are recognizing the evil of the inflammable roof and striving to correct it—as the ever-increasing appearance of asbestos roofs on every type of structure indicates.

JOHNS-MANVILLE Inc., 292 Madison Ave., at 41st St., N. Y. C.
Branches in all large cities
For Canada: Canadian Johns-Manville Co., Ltd., Toronto



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USEFUL CATALOGS



HOW much do you lose each month through lack of information on specified products? The architect or client specifies a certain material and then you discover that data in not at hand. Anticipate these demands by making your catalog file as complete as possible.

Floor Treatments for wood floors, concrete floors, cement floors, are discussed in Book "B," one of a series of 6 books published by Truscon Laboratories, Detroit, Mich. The data therein is specific and of unusual value to architects, engineers, construction companies, builders and contractors.

Insulating Material known as Korfund is used to isolate machine vibrations. Builders of industrial structures will find a new descriptive booklet published by The Korfund Co., Inc., 325 E. 42nd St., New York, a valuable addition to their files. A partial list of prominent users of Korfund is included.

Gas Ranges are described in handbook form for architects and builders in a new catalog by that name, published by American Stove Co., St. Louis, Mo. Illustrations and tables together with adequate descriptive matter make up the contents.

Garage Door Sets are being made to carry doors around the corner, leaving full clearance of doorway. A type that requires a minimum of space in operation is described in a folder, "In Harmony," published by National Mfg. Co., Sterling, Ill.

Stucco in building work is constantly increasing in popularity. Wide-awake builders should keep track of the different improvements and ideas offered by the various manufacturers of stucco. To help builders in this instance, the Rocbond Company of Van Wert, Ohio, is distributing valuable pamphlets on their products.

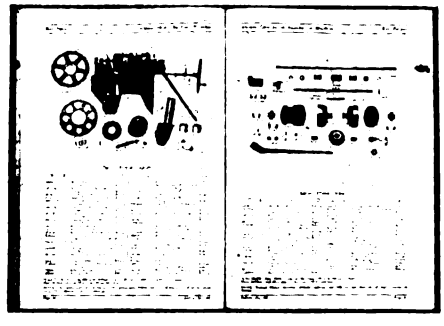
Waterproofing Concrete is of great importance, and, of course, the material selected for the waterproofing matters greatly. Liquid Waterproofing, manufactured by Sommers & Co., Ltd., 342 Madison Ave., New York, is described in their new folder containing specifications for the use of Permantite Waterproofing.

Gas Water Heaters are discussed in the new catalog of the Humphrey Co., Kalamazoo, Mich. Instructions for the proper installation and architectural specifications are given in this catalog. Also, valuable data concerning plumbing of hot water systems.

Laundry Dryers should be part of every well equipped residential laundry. All of the disadvantages and hazards of outdoor drying are eliminated with this modern innovation. The Lamneck Laundry Dryer is equipped with a gas burner, controlled automatically. "A Lifetime Servant" is the name of a new folder published by the manufacturer, W. E. Lamneck Co., Columbus, Ohio.

Water Filters are improving the actual value of residential properties throughout the country. They serve homes as well as country estates, the equipment well repays the initial investment. Another phase of filter work—for swimming pools—is the subject of bulletin No. 500 of the Graver Corp., East Chicago, Ind.

Concrete Machinery repair parts catalogs are being distributed by Chain-Belt Company, Milwaukee, Wisc. A new system of coding and numbering has been used that will reduce the chances for error to a minimum. The numbering of the parts is such that the part numbers correspond with actual drawings, casting or piece numbers. Another



unique feature is complete information for unloading, working, operating and maintaining the machine. Illustrating it are two pages showing miniature parts and their code numbers. These books are issued for the Rex 3½-S, 5-S, 7-S, 14-S, 21-E Pavers and 27-E Pavers.

Doors are an integral part of the interior decorative scheme. Paine Miracle Doors are well known to the buying public and represent a good investment for the builder. In a 56-page catalog, in color, many beautiful types are illustrated and described. Manufacturer, Paine Lumber Co., Oshkosh, Wis.

Peeble Dash and Stucco Finish give added light and luster to stucco houses. Vicro maintains a fresh, crisp appearance for all times. Literature on Vitreous Chromolithic Stucco Dash is published by the Central Commercial Co., 332 So. Michigan Ave., Chicago.

Concrete Mixers add efficiency to the builder's work. Their cost is a small item in the figure of the total and in continual profit they soon pay for themselves. Many types are described in the new mailing pieces of the Kiel Mixer Co., Milwaukee, Wisc.

Mail Boxes and Mail Chutes are not expensive to install and yet they add greatly to the sales value of a new house. Two types, neat in appearance and easy to install are described in the new catalog of the Kolstad Mail Box Co., 402 W. First St., Duluth, Minn.

Wooden Gutters of Improved O. G. Fir add beauty to the architectural design of the house. E. M. Long & Sons, Cadiz, Ohio, have prepared an attractive book, covering the use of wooden gutters, giving details of application and showing various installations of their gutters.

Masonry Nails to be used in brick, mortar or concrete offer an inexpensive means of fastening. Parker-Kalon Hardened Masonry nails are easy to use, and it is seldom necessary to drill a hole. Literature on this product may be obtained from the Parker-Kalon Corp., 356 West 13th St., New York.

Furnaces need not be expensive to provide sufficient heating conditions and permanence of installation. Large scale production and direct sales have brought about appreciable economies in the production of Kalamazoo furnaces. Pipe and one register models are described in new literature of the Kalamazoo Stove Company, Kalamazoo, Mich.

Woodworkers and new floor sanders are described in "The Master Woodworker", a new 20-page catalog of the Master Woodworker Mfg. Co., Brush and Congress Sts., Detroit, Mich. Accurate, portable, speedy and powerful are the keynotes of the text. The work is amply illustrated and arranged in convenient form.

Residential Electric Plants for the production of light and power need not be over elaborate. A compact model for suburban and farm home service, schools, stores, etc., is described in a new Fairbanks-Morse catalog in which illustrations, specifications and general data are included. Fairbanks-Morse & Co., manufacturers, Chicago.

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The Right Fixture
Commends Your Houses

The toilets you install speak volumes for the quality of your houses—if the toilets are "Standard" Purimos.

Install Purimos, along with other "Standard" Plumbing Fixtures, and you have features of cleanliness and sanitation unexcelled.

Only the "Standard" Purimo, for instance, has these advantages that discriminating women are more and more prompt to look for and to recognize:

1. Extended lip both front and *back*—making for utmost comfort, cleanliness, and sanitation. In no other toilet is this obtainable.
2. White seat divided at the back as well as in front for greater cleanliness.
3. Large water area, with minimum of exposed fouling surface.
4. The new "Standard" Tank Fitting that insures quiet, efficient action under all conditions.

The Purimo, like all "Standard" Toilets, has the pleasing base design that lends real beauty to the bathroom. Like all "Standard" Toilets, too, it is made complete in "Standard" factories and is backed by "Standard"'s reputation as the largest manufacturer of Vitreous China, Brass Fittings, and Enameled Ware.

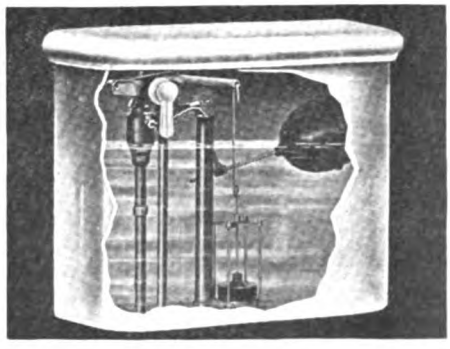
Specify "Standard" Toilets as well as other "Standard" Fixtures to give your houses that all-around bathroom perfection that has the widest appeal.

Write on your business letterhead for the "Standard" Catalogue.

Standard Sanitary Mfg. Co.
PITTSBURGH

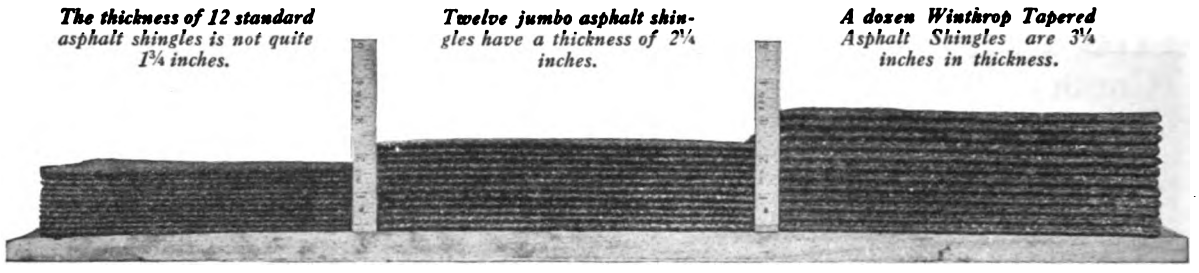






"Standard" Closets named below have the same quiet, efficient fittings. Working parts are above the water line to protect them from the corrosive action of water, and are of heavy red brass. Whether you specify the Purimo, as illustrated, or the Devoro, Siacto, Expulso, or Ejecto, you are sure of the best tank fitting that may be had.

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Long wear lies beneath beautiful colors



The weight of the exposed portions of 12 standard shingles is 32 oz.



The weight of the exposed portions of 12 jumbo shingles is 78 oz.



The exposed portions of 12 Winthrop Tapered Asphalt Shingles weigh 95 oz.

The wear of the exposed portion of a roof is doubled by the thick butts of Winthrop Tapered Asphalt Shingles. By measurement and by weight, this statement is proved.

This thickness is made up of extra coats of everlasting asphalt on both sides the heavy, high quality felt core. The surface is crushed slate in natural colors.

-the Big Butt Shingle

Winthrop Tapered Asphalt Shingles

The range of color in these non-fading slate surfaces includes eight solid colors and five combinations. With such a selection, a Winthrop roof may be suited to any style of architecture and can fit any type of building into its surroundings.

In one color, in mottled effect or in toned combinations, a Winthrop roof is beautiful, with its color enhanced by the shadow lines cast by the thick butts.

These thick butts lie close and flat. Over old roofs Winthrops are unequaled. They do not curl, rot, rust, split nor crack, and they bear the Class C label of Underwriters' Laboratories.

Most lumber dealers carry Winthrop Tapered Asphalt Shingles but we should like for every contractor with new or re-roofing jobs before him to have a complete set—all colors—of full-sized shingles. Write today. There is no charge.

Beckman-Dawson Roofing Company
1030 Brooks Bldg., 223 W. Jackson Blvd., Chicago, Ill.
Manufactured also by
Lockport Paper Co., Lockport, N. Y.

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Gypsum and Lime Cos. Consolidate

THE Universal Gypsum Company of Chicago and the Palmer Lime and Cement Co. of New York have recently concluded their negotiations looking to the merger of the two companies into one corporation, the Universal Gypsum & Lime Co. The value of this merger can hardly be over-estimated, because it is an advanced step, bringing together two important building material producers into one institution. This will insure distinct economies in operating, as both gypsum and lime products will be distrbuted to the consumer through practically the same channels, although they have different uses in building construction.

The Universal Company has developed new uses for Gypsum, and controls patents covering these products, both domestic and foreign, and it is rapidly increasing its business, largely on account of the new products it is introducing to the building trade. It is also true that the Palmer Lime and Cement Co., which now becomes a part of Universal Gypsum & Lime Co., has made progress in developing new processes for manufacturing lime, which is accepted by the trade so extensively that it is necessary for the company to add additional equipment to meet the demand for this newly developed material.

The addition to the present Board of Directors will be:

J. N. Babcock, Vice-President, Equitable Trust Bank of New York; Carleton Palmer, President, The Squibbs Chemical Co., New York; Lowell M. Palmer, Jr., President, Palmer Lime and Cement Co., New York; C. G. King, General Manager, Palmer Lime and Cement Co., York, Penna.

The Company's offices are located at: Chicago, New York, Fort Dodge, Ia., Atlanta, Ga., Kansas City, Mo.

Mills are in: Akron, N. Y., Batavia, N. Y., Fort Dodge, Ia., Rotan, Tex., York, Penna., and Oranda, Va.

Dryer Company Takes New Name

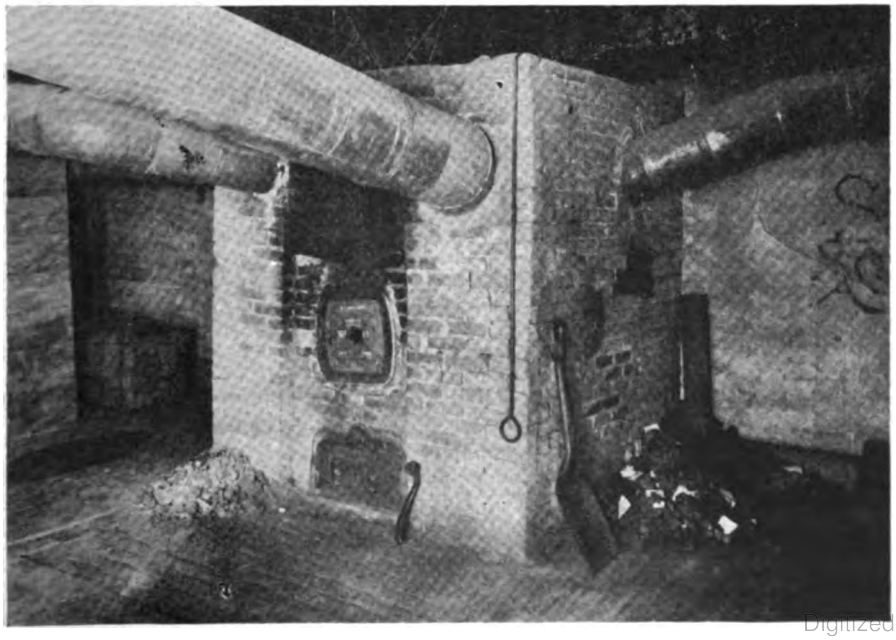
THE business heretofore carried on under the name of the Victor Dryer Company is now incorporated as the Victor Clothes Dryer & Mfg. Co. Owing to the fact that the organization manufactures builders' steel folding staging brackets, brick and mortar hods, in addition to clothes dryers and moreover intends making new additions, it was thought best to take the new name so that it could better advertise these products. There is to be no change in the management of the concern. The office of the organization will remain at 1 Shirley St., Worcester, Mass., and will continue to use the same channels of distribution.

Asbestos Company Reports Peak Volume

THE largest volume of sales of Ambler Asbestos building products in the history of the company is reported for June and July by the Asbestos Shingle, Slate & Sheathing Company, of Ambler, Pa., which manufactures asbestos shingles, asbestos building lumber and corrugated asbestos roofing and siding.

Heavy export orders are included in the business for these two months, especially from Cuba, where the company has a Havana branch. A fifteen-acre site has been purchased at St. Louis for a new factory to take care of the company's increased business and provide additional facilities for serving its customers in the West.





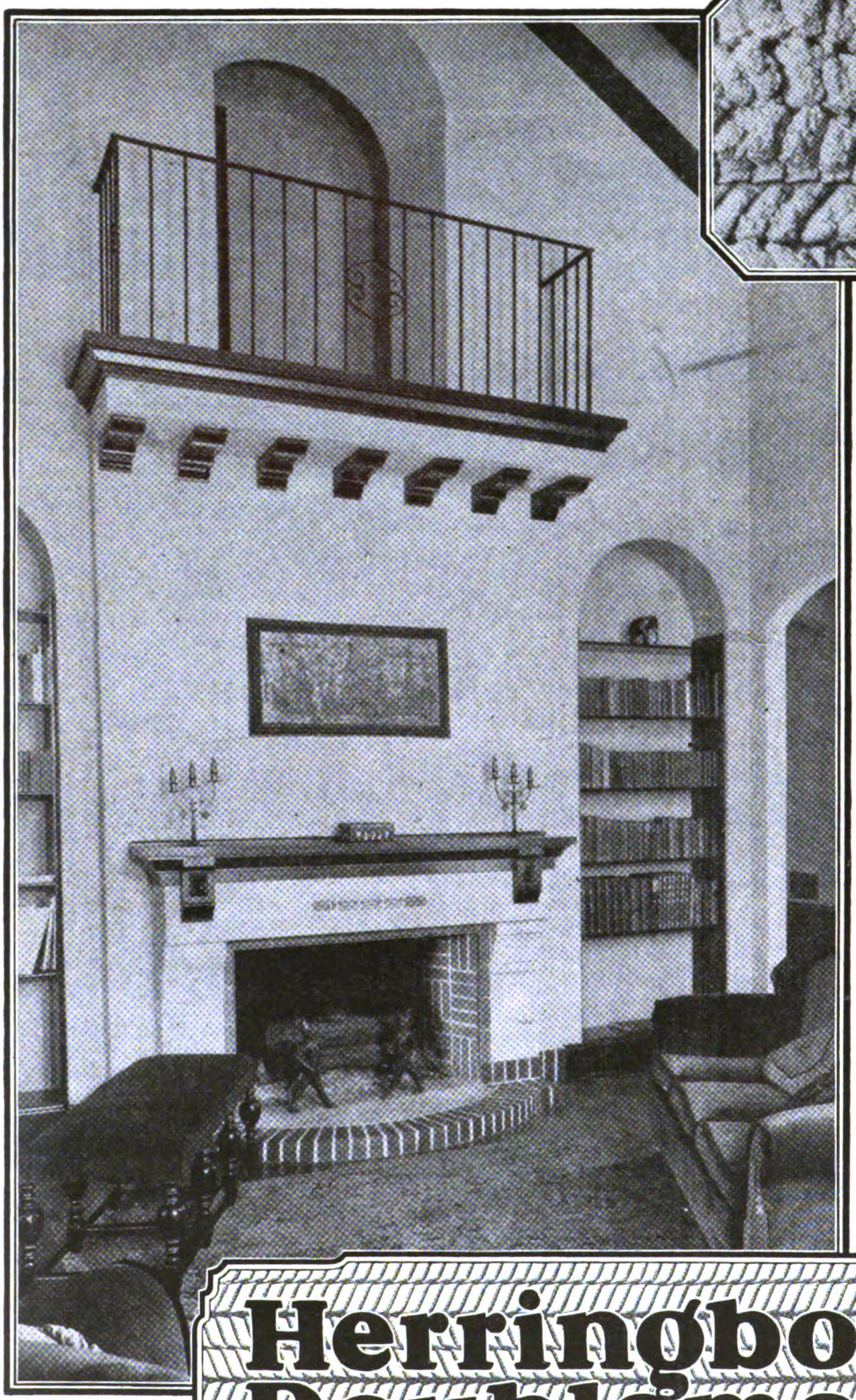
Warm Air Heater Serves 76 Years

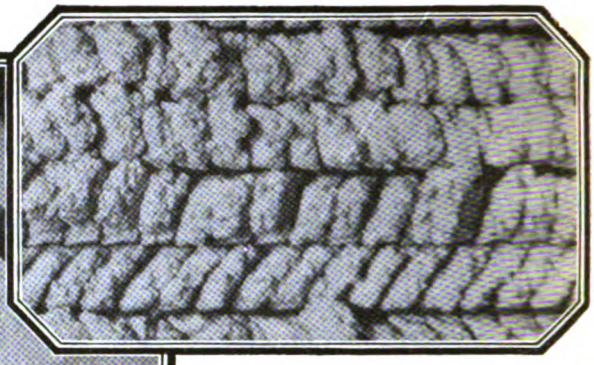
CHRIST CHURCH was built in Tarrytown-on-the-Hudson, N. Y., in 1836. For 13 years the building was heated by stoves. Then, in 1850, Washington Irving (famous for his Sketch Book) presented the church with what was then the most modern heating apparatus—a Model No. 11 Richardson & Boynton Heater.

As far as the church annals show, this heater which was used for 76 years, has had only very minor repairs. It still heated the church efficiently, but because of the fact that repairs for this model cannot now be supplied, a new type is being installed.

The No. 11 heater at that time, was manufactured by a small plant in Spuyten Duyvil. In passing, it is interesting to note that in 1925 this company manufactured 2,000,000 warm air heaters.

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Close up of the key side of Herringbone Doublemesh showing the uniformity of plaster distribution.

PLASTER ECONOMY WITHOUT SACRIFICING GOOD CONSTRUCTION

Herringbone Doublemesh Metal Lath enables you to obtain the best fire-safe plaster construction with marked economy. The small mesh of this Lath affords tenacious bond for plaster and is, at the same time, very saving of plaster material. Furthermore, this Lath, because of its complete and uniform expansion, embeds itself thoroughly in the plaster, thus making a permanent wall or ceiling of lasting beauty. Write for Herringbone Handbook —free on request.

Herringbone Doublemesh METAL LATH

THE GENERAL FIREPROOFING BUILDING PRODUCTS

YOUNGSTOWN, OHIO

BRANCHES IN ALL PRINCIPAL CITIES. DEALERS EVERYWHERE.

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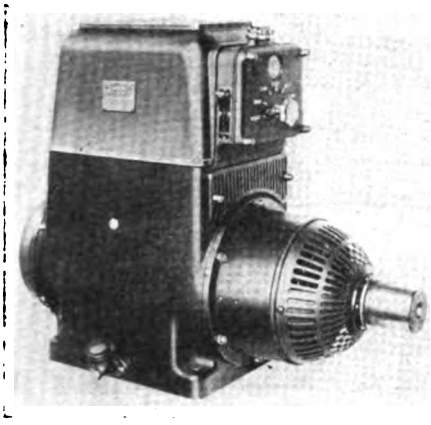
WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

Light Plant Has Unique Features

A NEW home electric power plant has been announced by Fairbanks, Morse & Co., Chicago. According to the manufacturers, it represents the results



of years of investigation and research, having as its objective the development of a plant incorporating features that would make it ideal for outlying residential districts.

The new model is compact and simple, with fuel tanks, oil reservoirs and cooling system built in. Every rotating part, with a single exception of the belt pulley, is entirely enclosed for safety. The engine, a single cylinder four cycle type, is fitted with the new "Ricardo" type of cylinder head, designed to create a greater turbulence of the gases in the cylinder head, thereby effecting a fuel saving of about 10%.

Attention has been given to speed regulation with the result that a specially designed governor has been developed. As a result the lights are flickerless even when current is supplied direct from plant without the use of a storage battery.

The manufacturers have placed particular emphasis on a patented cooling system described as "vapor" or "steam" cooling. Water is carried only in the cylinder jacket and not in the head. Water quickly reaches the boiling point and the steam thus formed quickly circulates in the cylinder head, quickly condensing into the radiator.

The generator is direct-driven by the engine, the armature being mounted on an extension of the crankshaft. Plants of this type are built in sizes of 750 and 1500 Watts; units of either size used either as direct lighting plants without batteries or in the usual way with batteries. The equipment is approved by the Fire Insurance Underwriters' Laboratories for burning kerosene or gasolene.

Gypsum Floor Fill

CONSTRUCTION reports from the Swayne Apartments, 58th St. and Stoney Island Ave., Chicago, show that a crew of six laborers installed approximately 12,000 sq. ft. of 3 in. cellular gypsum floor fill over two and half days. Within a few minutes after screeding has been completed, the material begins to harden. Within 30 to 40 minutes it is set up hard enough to be walked on.

The product, cellular or "pyrocell" gypsum is a special form of the mineral processed so that when mixed with water a gas is released. This causes the mix to rise to from 3 to 6 times its normal size. In its final state it becomes a light, porous rock-blanket, honeycombed with tiny air cells.

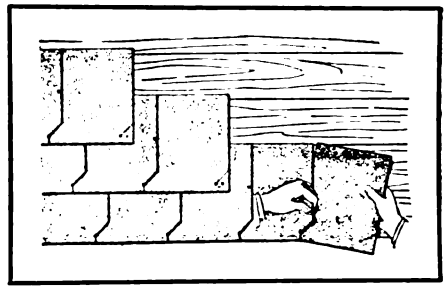
According to tests conducted at Columbia University, New York City, and Armour Institute of Technology, Chicago, 30 lb. pyrocell, when covered with ¾ in. cement topping, has a load bearing strength of from 400 to 500 lbs. per sq. in. Where this cellular gypsum is used as an insulation blanket for roof decks, it is brought out at the Armour Institute that 2 in. of this material shows a heat loss of 10.8 B. t. u.'s per sq. ft. per degree Fahrenheit between the two surfaces per 24 hrs.

Manufacturer is the U. S. Gypsum Co., 205 W. Monroe St., Chicago.

Lock Shingles Vary Roof Effects

TO give the builder the maximum production in roofing shingles a new type known as the Tru-Lok has been developed by the Beckman-Dawson Co., 223 Jackson Biulevard, Chicago. Because of asphalt and crushed slate this new type provides unquestionable permanence and because of the lock it assures safety and allows arrangement in almost any style.

For homes with low roofs and round cornices, a thatch roof effect is recommended. With the locking device the builder may go ahead with every assur-



ance of creating a harmonious effect. The semi-thatched effect is another providing attractive treatment. It is particularly valuable in side shingling, dormers, etc. The effect is produced by laying alternate courses in wide and narrow exposure.

Particularly well adapted for Colonial and two-story homes over new and old work is the ocean wave treatment. In this, courses are kept vertically in line.

In the illustration it is shown the ease with which the Tru-Lok Shingle is laid. Two nails per shingle are all that need be used.



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Isn't this what you want to know about Stucco?

1. *How long has it been on the market?*

Elastica has been manufactured and marketed continuously by the same company for fourteen years and the number of buildings on which it is used increases with each succeeding year.

2. *Is it waterproof?*

Elastica is thoroughly and permanently waterproofed with an integral all mineral waterproofing. It is unaffected by changes in temperature; heat, cold or water. It, therefore, protects the lath or other background; water cannot reach the lath through Elastica. When properly applied over recognized background, Elastica compares favorably with brick or stone, and at a lower cost with added beauty. It is durable. Its record testifies to this. It is the *original* waterproofed stucco.

3. *How much time and labor are required in preparing it for the wall surface?*

Elastica is completely mixed at the factory. The manufacturers take the responsibility of the correct proportioning and mixing — each bag is correctly proportioned before it leaves the factory. Nothing to add at the job but water.

4. *How does it work under the trowel?*

Any plasterer who has used Elastica will prefer it because of its ease and quickness of application. It "works" easier under the trowel. One plasterer and helper can apply considerably more Elastica than ordinary stucco, in a working day.

5. *Does the manufacturer stand back of it?*

The Manufacturers of Elastica stand back of every pound. Any Elastica dealer or contractor will verify this.

6. *What is its record?*

"A city a year" is built with Elastica. Enough homes to house tens of thousands of people have been built with it each year for the past ten years. Today it is rated as the leading brand of stucco in a great market.*

*From surveys made by unbiased mediums.



Manufactured by

U. S. Materials Co., Chicago
American Materials Co., New York
Northwest Materials Co., St. Paul

Elastica is the answer to these most vital questions in stucco. You can use Elastica secure in the knowledge that it is serviceable, dependable and profitable. Let us send you further information. Write today

ELASTICA DEALERS AND ELASTICA HOMES ARE EVERYWHERE

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What's New in Materials and Equipment

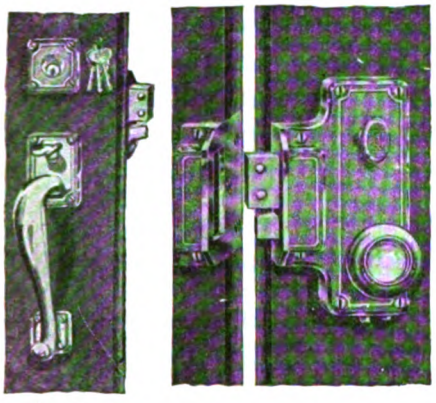
Burglar Proof Lock Sets

A TYPE of lock has been devised that answers the purpose of a mortise lock without the need, however, of mortising or cutting into the doors. This serves to retain the strength of the door and saves time and expense in the installation, according to the manufacturers, Segal Lock & Hardware Co., Inc., 159 Leonard St., New York City.

Another feature is a patent spring-tension spindle constructed to permit knobs fitting snugly and also to prevent them from working loose.

The duplex lock set has a jimmyproof bolt-construction with four ball bearings or projections—two on each side of the bolt—timed to enter into the keeper when the bolt is thrown. As no jimmy can pry away a bold when in the keeper, this lock may be called jimmyproof.

Lock sets are made of solid bronze,



including cast bronze knobs, handles and trim. Knobs can be furnished with special monograms and designs when desired. For master key work any of the locks may be had with cylinders master-keyed, grand-mastered or pass-keyed.

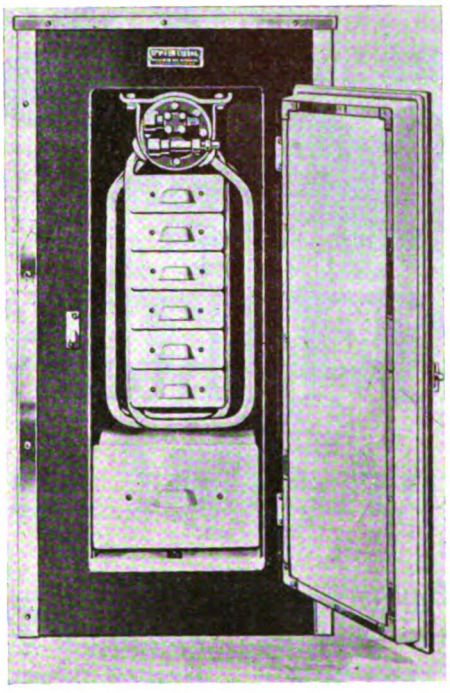
New 2-Ton Truck for Builders

THE latest additions to the line of Graham trucks being sold by Dodge Brothers dealers are two new types of 2-ton capacity.

Model TC, illustrated, is particularly adapted for use in the building field. Two lengths are made: the shorter for 9 ft. bodies, has a wheel base of 137 in.; the longer, for 12 ft. bodies of 162 in.

Front springs on both chassis are 37 in. long, 2 in. wide, with 9 leaves. Rear springs: 56 in. long, 3 in. wide, 11 leaves. Rear axles are semi-floating with a spiral bevel gear with a reduction of 6.286 to 1.

A four-cylinder engine with a heavy duty truck type transmission, heavier frame, springs and other chassis parts insure service with the 2-ton loads just as satisfactorily as that supplied by the smaller trucks holding loads for which they were designed. Manufacturers are the Graham Brothers, Detroit, Mich.



Automatic Refrigeration

IT is interesting to consider the rapidity with which automatic refrigerating machines have found a place in the building field. When they were initially introduced, their installation was reckoned with in a class with luxuries. Later on, builders and architects commenced to see their tremendous sales possibilities and to recommend them to clients.

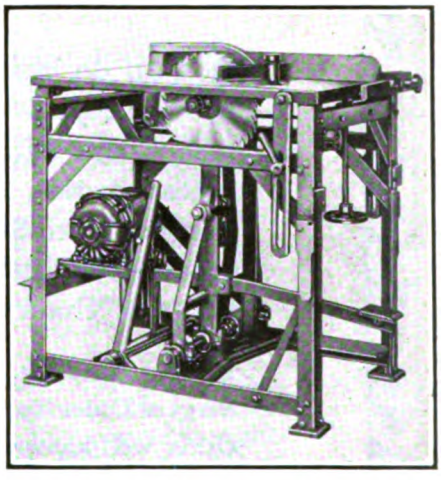
Frigidaire equipment, well known to the field, has added another model to its line—Frigidaire Ice Maker. This is an insulated cabinet, 40 inches high, 22¼ inches deep and 21 inches wide. Within it, a set of coils surrounds six ice trays. A cold storage drawer is placed beneath.

A Frigidaire compressor, ¼ H.P., operates the Ice Maker. Ice trays will freeze 12 lbs. of ice cubes at one time and these can be placed in a storage drawer below, while another 12 lbs. are being frozen. It is evident that this model would be well adapted for large homes, hotels, clubs, etc., where a large number of ice cubes are in demand. The Delco-Light Co., Dayton, O., is the manufacturer.

Boasts Ease and Speed

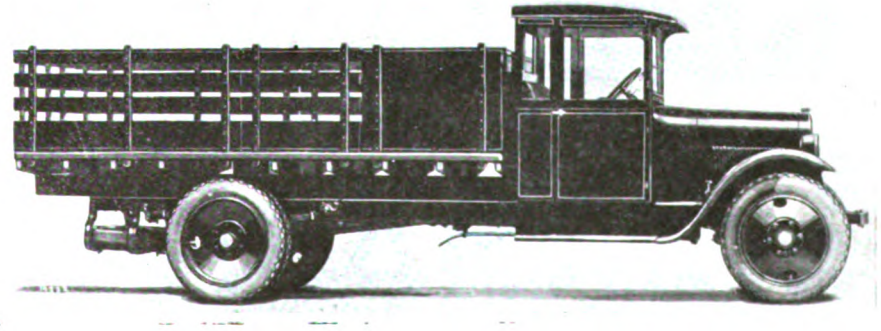
IT is generally agreed among builders that a great deal of hand sawing can be done away with. Just how much time is spent on every job cutting out joists, ripping siding, matching frames and cutting stock to fit is seldom computed, but the amount of waste labor is considerable.

Modern power woodworking equipment eliminates most of these labor costs and equally importantly it speeds up the job. The manufacturers of the new "Wonder Saw" claim that the work may be done by machine in just one-tenth the time. Their new equipment operates on the principle called the "forward swing." The operator steps on a pedal which moves the saw forward through the lumber.

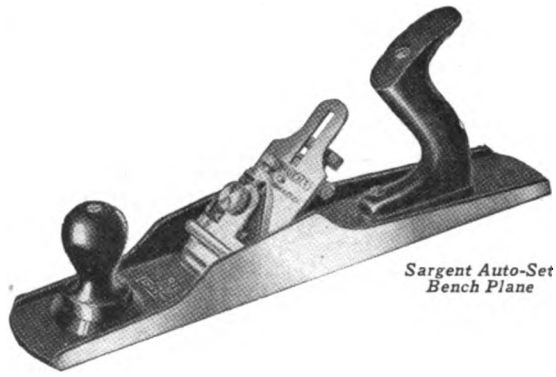


A 24x36 in. top, made of heavy cast iron, may be raised or lowered to any desired height by an end wheel. Side clamps lock it into place. This top is marked off in divisions to provide correct measurement of the work.

To cut various angles a ripping fence or guage tilted to any angle up to 45 degrees is provided. Extreme portability is another feature. A control lever raises entire equipment on wide flat tread wheels. By grasping collapsing handles one man can roll the machine from room to room. The Wonder Saw is manufactured by St. Louis Machine Tool Co., 1429 Pine St., St. Louis, Mo.



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Sargent Auto-Set
Bench Plane

2 pounds lighter than old style planes of same size

IF YOU do much joinery work by hand you know that this means less effort, less fatigue, better work. You can use a Sargent Auto-Set, fore or jointer, all day without getting that ball and chain feeling in your wrists. Why, many practical hammers don't weigh more than 2 pounds. Here's a table of comparative weights. The Sargent Auto-Set Bench Plane against the older type Sargent and another well-known make.

Sargent Auto-Set No. 718 (18 in.)	*5½ lbs.	No. 722 (22 in.)	6 lbs.
Sargent Older Type No. 418 (18 in.)	7 lbs.	No. 422 (22 in.)	7⅛ lbs.
Other well-known make (18 in.)	*7¾ lbs.	(22 in.)	8⅛ lbs.

A difference here of 2¼ pounds.

There are other reasons why you should use the Auto-Set. It can be adjusted for fine or coarse cut, both as to cutter and clamp, without removing any parts. It is self-setting when parts are replaced after sharpening. The chromium steel cutter is easy to sharpen. It takes a remarkably keen edge and holds it. See Sargent Planes and Squares at your dealer's. Try them out. Mail coupon for descriptive booklets.

SARGENT & COMPANY, *Manufacturers*, 52 Water Street, New Haven, Conn.
Please send, without cost to me, the booklets on Sargent Planes and Squares.

Name.....

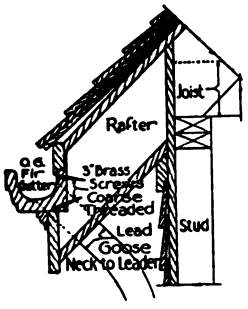
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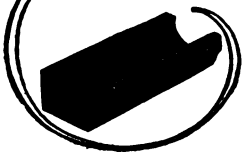
SARGENT
Tools & Hardware

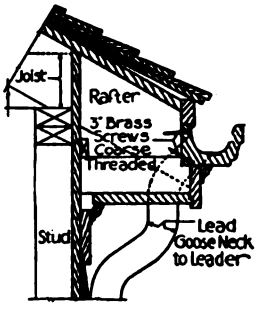
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For Beauty, Permanence and Economy



"Improved" O. G. FIR GUTTERS





THE ancient wood "dug-outs" were the first gutters used in America. Then came metal gutters. Now metal gutters are rapidly being replaced by "Improved" O. G. Fir Gutters—improved in design, pattern and quality over all other gutters.

Look Better

The straight horizontal lines and O. G. shape of "Improved" O. G. Fir Gutters make a trim, neat, clean-cut finish and add to the attractiveness of the exterior. Beauty of form and design gives real architectural merit. We ask you to compare them, for beauty, with other gutters.

Last Longer

"Improved" O. G. Fir Gutters cannot corrode, disintegrate, expand or contract when exposed to natural elements, smoke, fumes or acids. That's why they last the life of the house. What other gutter has this permanence? Seventeen Railway lines have made this gutter standard equipment. Isn't this splendid proof of quality, permanence and economy?



Less Expensive

The biggest economy of "Improved" O. G. Fir Gutters is their permanence. They outlast metal gutters by many years. No replacing is necessary. Install these gutters once and save replacement costs. They are economical in first cost. No roof mold is needed with "Improved" O. G. Fir Gutters and they can be painted with ordinary house paints.

On your next building settle the gutter problem once and for all by installing "Improved" O. G. Fir Gutters when the house is built. Satisfy your customers by giving them a gutter that will look better, last longer and be less expensive.

Fill out the coupon below and let us send you a booklet that gives complete information on "Improved" O. G. Fir Gutters.

E. M. LONG & SONS

CADIZ TRADE MARK E. M. LONG & SONS CADIZ OHIO IMPROVED O. G. FIR GUTTERS REG. U. S. PAT. OFF. OHIO

Gentlemen: **E. M. LONG & SONS, Cadiz, Ohio**

B. A. Please send me your free booklet describing "Improved" O. G. Fir Gutters.

Name..... *Address*.....

Dealer's name..... *Address*.....

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 243 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(*See also Alphabetical Index, page* 242)

ACCOUNTING MACHINES—See Bookkeeping Machines

ACOUSTICS

Celotex Co., 645 N. Michigan Ave., Chicago, Ill.

2664. *Acousti-Celotex.* Details and and specifications. Deal with new sound-deadening board.

Insulite Co., Builders Exchange Building, Minneapolis, Minn.

6824. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.

3559. *Sound Deadening and Insulating Materials.* Booklet. Illus.

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ASBESTOS PRODUCTS—See also Roofing

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.

2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.

2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.

2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.

2145. *Eternit Asbestos Lumber.* 12 pp. folder.

2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.

2147. *Instructions for Applying Eternit Asbestos Shingles.*

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.

5041. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Descrices a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclcpedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631 *Kenney Needle Shower.* Catalog "A." Illus. Concerns several types of body showers.

Kohler Co., Kohler, Wisc.

6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.

Republic Brass Co., Cleveland, Ohio.

6661. *Republic Two Way Service Control.* Folder. Describes shower control lever.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.

5954. *The Transformation.* Describes how hall-end is converted into "Standard Five Foot Square Bathroom."

5955. *"Standard" Pembroke Baths.* Folder in colors.

Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.

5991. *General Catalog.* 10 cents.

White-Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich. New York Office and Display Room, Room 409, Columbia Bank Building, 507 5th Ave. Mr. Harry Parker in charge.

5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.

5342. *White-Steel Shower Curtain Poles.*

5343. *White-Steel Line.* Towel bars, tumbler and soap dish holders.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Brown Bed Co., Kansas City, Mo.

7011. *All Steel Disappearing Bed.* Designed to prevent collapsing.

Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Holmes Disappearing Bed Co. (See listing Concealed Bed Corp.)

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.

BENCH GRINDERS—See Grinding Machinery

BILLING MACHINES—See Bookkeeping Machines

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.

2542. *Breeze Booklet.* Form 2320. Describes fan for domestic use.

2543. *Catalog No.* 860. Fans, Blowers, and Exhausters.

BOILERS—See also Heating Equipment; Water Heating Systems

Riverside Boiler Works, Inc., 491 Main St., Cambridge, Mass.

5891. *Range, Boilers.* Describes galvanized and copper types.

5892. *Storage Systems.* Describes automatic, gas-fired types.

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Walker Co., Frank B., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BOOKKEEPING MACHINES

Elliott-Fisher Co., 342 Madison Ave., New York, N. Y.

6931. *A Machine Which Fits Your Business.* Booklet. Illus. Universal Bookkeeping machine.

6932. *Why.* Booklet. Illus. Basis of bookkeeping by machinery.

6933. *New Elliott-Fisher Automatic Electric.*

6934. *Machine Written Records.* 16 pp. Illus.

6935. *Pay Roll.* 16 pp. Illus. Machine operation.

6936. *The High Cost of Cost Accounting.*

BRACKETS—ROOFING, ETC.

Elite Mfg. Co., Ashland, O.

3011. *Scaffold Brackets.* Catalog. Deals with application.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* 16 pp. Describes *Trouble-Saver Steel Scaffolding.*

BRANDING IRON

Everhot Mfg. Co., Maywood, Ill.

3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 17 West 46th St., New York; also Watsontown, Pa.

5691. *Fisklock and other Face Brick.* Appeals to builders from popularity angle.

Hanley Co., 2 Main St., Bradford, Pa.

5961. *Bradford Reds.* Four types of smooth and rough texture face brick.

BRIDGING—See also Metals and Metal Specialties

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.

6841. *Tru-Tye Steel Bridging.* Steel tension bridging holding without nails.

General Fireproofing Co., Youngstown, O.

32213. *GF Metal Building Specialties.* Folder. A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDERS' WOODWORK—See Lumber and Woodwork

BUILDING BLOCKS

National Building Units Corp., 1600 Arch St., Philadelphia.

7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

BUILDING CONSTRUCTION

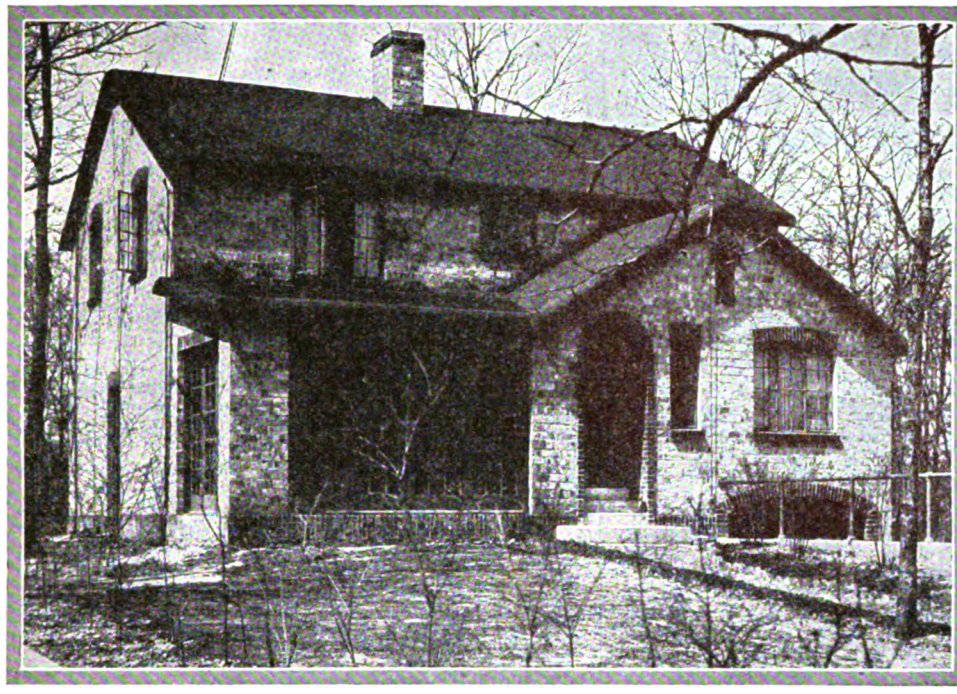
Copper & Brass Research Assn., 25 Broadway, New York.

5941. *Literature.* Booklets on copper, brass and bronze.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus.

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The "WANAQUE"

One of the houses shown in the new edition of the famous brick book—"*Your Next Home*". Designed by Architect Henry K. Holsman and built in Ravina (Chicago) Ill. Specifications and complete working blueprints available through this Association at nominal cost.

Common Brick has been selected wherever brick is used—in all the houses of the National Demonstration Model Homes series.

This Fire-safe "All-Brick" House cost Less than Frame Houses nearby

ALL-BRICK walls to the eaves and gables, brick partitions, brick chimneys and fireplaces—brick window sills, porch columns and trimmings. All other materials are non-burnable too.

Yet this house cost less than many frame houses of the same size, in the same neighborhood!

Think of the powerful selling points of this fire-safe, almost everlasting house. No wonder architect Holsman says—"Masonry construction is by far the best seller".

Notice the new Common Brick advertising campaign in the *Saturday Evening Post*, *House Beautiful*, and many other magazines. The public is learning to prefer *All-Brick* construction.

Get ready to cash in on this popular trend. Send for the books below. They tell how to build beautiful *All-Brick* walls at lowest cost.

At Your Service

These District Association Offices and Brick Manufacturers Everywhere

Chicago	614 Chamber of Commerce Bldg.
Denver	1735 Stout St.
Detroit	400 U.S. Mortgage Trust Bldg.
Hartford, Conn.	226 Pearl St.
Los Angeles	342 Douglas Bldg.
New York City,	1710 Gr'd Cen. Term'l Bldg.
Norfolk, Va.	112 West Plume Street
Philadelphia	303 City Centre Bldg.
Portland, Ore.	906 Lewis Building
Salt Lake City	301 Atlas Blk.
San Francisco	932 Monadnock Bldg.
Seattle, Wash.	913 Arctic Bldg.
Springfield, Mass.,	301 Tarbell-Watters Bldg.

The Common Brick Manufacturers' Association *of* America
2133 Guarantee Title Building
CLEVELAND, OHIO

BRICK *forever*

Common Brick Ass'n.
2133 Guarantee Title Bldg., Cleveland, O.

Send me the Books of Brick Beauty and Economy, checked below, for which I enclose the price indicated.

- ☐ "*Your Next Home*"—(New Edition) Photos and Plans of 57 homes (10c)
- ☐ "*The Home You Can Afford*"—62 homes (10c)
- ☐ "*Brick, How to Build and Estimate*"—(25c)
- ☐ "*Skintled Brickwork*"—(15c)
- ☐ "*Farm Homes of Brick*"—(5c)
- ☐ "*Brick Silos*"—(10c)
- ☐ "*Multiple Dwellings of Brick*"—10c
- ☐ "*Hollow Walls of Brick*"—FREE

Name _____

Address _____

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Selected List of Manufacturers' Literature

(Continued from page 174)

Home Owners' Service Inst., Inc., 441 Lexington Ave., N. Y.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price, 10 cents

Mortarless Tile Mach. Co., 21-22 Carrillo Bldg., Santa Barbara, Cal.
6531. *Build With Interlocking Concrete Tile.* Describes machine. gives details and typical installation. 12 pp. Illus.

National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.
4792. *Truscon Standard Buildings.* Form D-398. 44 pp.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.
4794. *Modern School Construction.* Form D-395. 16 pp.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

BUILDING PAPER

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature.

BUILT-IN FEATURES

Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on laundry tubs.

Berriman Biltin Wardrob Co., Tribune Tower Bldg., Chicago.
6981. *Berriman Biltin Wardrob.* Built of gum, walnut finished, designed to take place of clothes closet.

Brown Bed Co., Kansas City, Mo.
7011. *All Steel Disappearing Bed.*

Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Coppes Bros. & Zook, Nappanee, Ind.
7101. *Nappanee Kitchen Unit and Kitchen Cabinets.* Includes Time-Saver Table.

Dudfield Mfg. Co., 120 W. Kansas St., Liberty, Mo.
6511. *All-Metal Chalk Tray.* Installation includes eraser cleaner.

Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.

Kenny-Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.

Kolstad Mail Box Co., 402 W. 1st St., Duluth, Minn.
6801. *Kolstad Mail Box.* For various thicknesses of wall.
6802. *Kolstad Mail Chutes.* Telescopes to fit any thickness of wall.

Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.

Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.

Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Penn-Gregg Mfg. Co., 809 University Ave, St. Paul, Minn.
6251. *Mailo Box.* Booklet. Includes prices on built-in mail box.

Richmond Cabinet Co., Richmond, Ind.
6941. *Five Piece Kitchen Assembly.* Finished in white or gray.

Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. 12-*page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.

White-Steel Sanitary Furniture Co., Grand Rapids, Mich. New York Office and Display Room, Room 409, Columbia Bank Building, 507-5th Ave. Mr Harry Parker in charge.
5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment. also tumbler and soap dish holder.
5342. *White-Steel Shower Curtain Poles.*
5353. *White-Steel Line.* Towel Bars, tumbler and soap dish holders. glass shelves, robe and razor strop hooks, grab-rails, etc.

CABINETS—See Built-In Features; also Bathroom Fixtures

CALCIUM CHLORIDE—See Concrete Process

CANVASS—See Roofing Materials

CARBURETORS—See Trucks, Motor Supplies

CARPENTERS' TOOLS—See Tools, Edge, also Tools

CASEMENTS—See Windows, also Windows, Metal

CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings, Columns* (Iron and Steel).

CAULKING AND GLAZING COMPOUNDS

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* 14 pp. Illus. Asphalt putty.

Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.

A. C. Horn Co., Long Island City, N. Y.
6592. *Vulcatex Folder.*
6593. *Hornglaze.*

CEILINGS, METAL—See Metals, etc.

CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland

Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical.
2063. *Alpha Service Sheets.* Instructions on concrete construction.

Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar,* a building mortar.

Lehigh Portland Cement Co., Allentown, Pa.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
3774. *28 Better Homes.* Describes winning designs in Lehigh Cement Small House Competition

Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.

Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* 14 pp. Elastic Boiler cement.

Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Acrite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT COLORS

C. K. Williams & Co., Easton, Pa.
6601. *Anchor Brand Cement and Mortar Colors.*

CEMENT PAINT—See Paint, Cement

CEMENT, TILE

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.

CEMENT TOOLS

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools*
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHALK TRAY

Dudfield Mfg. Co., 120 W. Kansas St., Liberty, Mo.
6511. *All-Metal Chalk Tray.* Installation includes eraser cleaner

CHIMNEY CAPS—See Ventilators, also Metals, etc.

CINDER BLOCKS—See Building Blocks

CIRCULAR SAWS—See Saws

CLAMPS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.

Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

CLOTH WALL COVERING—See Wall Covering

COAL CHUTES

H. W. Covert Co., 137 E. 46th St., New York.
6322. *Covert Coal Chutes.* Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.

Kewanee Mfg. Co., 105 No. Tremont St., Kewanee, Ill.
5971. *Kewanee Coal Chutes.* Describes copper steel types with plain or glass doors.

Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools

COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors

COLUMN BASES

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus.

COLUMN AND BEAM COVERING

United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*

COLUMNS, WOOD

Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.

COMBINATION DOOR—See Doors

COMBINATION WOODWORKERS—See Woodworking Machinery

CONCRETE ACCESSORIES

Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples of standard and junior clips for anchoring wood floors to concrete

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.

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Kalamazoo Furnaces

1 You Buy at FACTORY PRICES

Direct dealing with the *furnace manufacturer* saves you money and increases your profit on every building. There is NO dealer's or jobber's discount, no matter how small, in the price you pay for a Kalamazoo furnace. *You* are the one who gets the absolute rock-bottom figure.

Direct Sales and Big Production Make Big Savings

The *double economy* of direct selling and our tremendous production is saving over a million dollars for Kalamazoo buyers this year.

That economy saves money for the Contractor who builds several houses just the same as for the private individual who builds one.

The Kalamazoo Stove Company makes only a moderate profit on its furnaces. By selling direct to the user from the factory it cuts out jobbers' and dealers' discounts, shipping, warehousing and selling expense. That all goes to you in the form of saving and increased profit.



"A Kalamazoo Direct to You"
Trade Mark Registered

2 You can guarantee for 5 Years AT OUR RISK

Whether you purchase a Pipe or One-Register furnace from us you get an absolute guarantee insuring it for five years against cracking, breaking or burning out any part due to fault of materials or workmanship. You can pass this iron-clad guarantee on to the purchasers of your houses.

Thus the *furnace* delivering Guaranteed Heat becomes an added selling point for the *house*.

Kalamazoo furnaces have acceptance all over America. The company has been well-known for 26 years. Its slogan "A Kalamazoo Direct-to-You" is famous in every corner of the country.

And there *is* quality in them, too. They are built of positively the finest materials that money can purchase by workmen who are second to none in ability. These are the best furnaces we know how to build. Only highest quality makes possible such a 5-Year Guarantee as ours.

3 You Save on INSTALLATION COST

We supply you FREE with complete installation plans if you will furnish us building plans of the house. With these plans any good workman—even an apprentice—can install a Kalamazoo furnace perfectly. If you have been turning over this work to heating contractors you can make a big saving here by installing the Kalamazoo with your own men.

An honestly built house deserves an honestly built furnace. Any other kind is going to be a liability to your business and hurt your reputation in the long run. A Kalamazoo furnace always delivers over-measure of warmth, comfort and satisfaction.

Mail Coupon for Quotation

It will save you a lot of money to fill out and mail the attached coupon today. Because of increased production we are able to make specially attractive prices to contractors who are building several houses at once.

Kalamazoo Stove Company
Kalamazoo, Mich.

The World's Largest Manufacturers of Furnaces, Stoves and Ranges Selling Direct from Factory to User

Kalamazoo Stove Company
546 Rochester Avenue
Kalamazoo, Michigan.

Gentlemen:

I am interested in building.. .....houses of about

.... size. Please let me know without obligation on my part what quotation you can make on ☐ Pipe ☐ One Register furnaces for these houses.

Name .....

Address .....

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Selected List of Manufacturers' Literature

(Continued from page 176)

4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.

United States Gypsum Co., 205 W. Monroe St., Chicago.

4813. *Bulletin FT5.* Deals with *Floor Voids* for use in concrete.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.

5581. *Van Guilder Wallbuilder.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

Wickwire Spencer Steel Corp., Worcester, Mass.

5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

C. K. Williams & Co., 636 N. 13th St., Easton, Pa.

6601. *Anchor Brand Water Colors and Cement Colors.* Folder.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.

2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.

2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.

2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.

Chain Belt Co., Milwaukee, Wis.

2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus.
2683. *More Yards Per Day.* Catalog. 38 pp. Describes Rex high speed idea.
2684. *The New Rex* 14-S. 18 pp. Catalog No. 136. Apply Rex high speed idea to larger building mixers.

Concrete Equipment Co., Holland, Mich.

2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

Construction Machinery Co., Waterloo, Iowa.

2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.

2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

J. B. Foote Foundry Co., 26 Front St., Fredericktown, Ohio.

3111. *Panama Line.* Catalog. Includes Panama concrete block machinery, concrete mixers, sill and cap machines, etc.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.

3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.

3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.

Knickerbocker Co., 550 Liberty St., Jackson, Mich.

6131 *Knickerbocker Catalog.* Describes Knickerbocker line of Quality Equipment for Builders. State desired machine.

Kochring Co., 31st & Concordia Sts., Milwaukee, Wisc.

3713 *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.

Lansing Co., Lansing, Mich.

5611. *Lansing Equipment for Contractors.* Catalog. Illus.

Mortarless Tile Mch. Co., 21 Carrillo Bldg., Santa Barbara, Cal.

6531. *Build With Interlocking Concrete Tile.* Describe machine, gives details and typical installation. 12 pp. Illus.

Raber & Lang Mfg. Co., 829 Mill St., Kendallville, Ind.

6181. *Crescent Concrete Machinery.* Catalogs. Include description of tilting mixers, block tampers, sewer pipe and tile moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.

4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.

4391. *Remmel Catalog.* 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.

4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp.
4562. *A Series of Leaflets,* Folders, etc. Illus.

Smith Co., T. L., Milwaukee, Wisc.

4591. *Smith Concrete Mixers and Pavers.* Catalog No. 500. Illus.
4592. *Smith 27 E Six Bag Paver.* Catalog 400-F. 40 pp. Illus.
4594. *Smith Glass Batch Mixers.* Catalog 404-A. 16 pp. Illus.
4595. *Smith Railway Pavers.* Bulletin 1015. 8 pp. Illus.

Standard Scale & Supply Corp., Pittsburgh, Pa.

6351. *Standard Mixer Booklet.* Deals with complete line of "Standard concrete machinery.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.

4681. *Catalog 25.* Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.

5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.

5581. *Van Guilder Wallbuilder. Booklet.* Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.

6861. *Anti-Hydro Formula.* For hardening, waterproofing, and dampproofing concrete, stucco and cement mortar.

General Fireproofing Co., Youngstown, O.

3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus

A. C. Horn Company, Long Island City, N. Y.

6595. *KeramiK KemiK Stains.* Brochure. Chemical penetrating stain giving artistic color effects.
6596. *Hornstone Crystals.* Folder. Chemical floor hardener.
6597. *Ferro-Fax.* Folder. Metallic floor hardener.

National Building Units Corp., 1600 Arch St., Philadelphia.

7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

Solvay Process Co., 40 Rector St., New York.

4601. *Solvay Calcium Chloride in Concrete Construction.* Book.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus

Sommers & Co., Ltd., 342 Madison Avenue, New York

5631. *Permanitite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permanitite Dampproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.

5581. *Van Guilder Wallbuilder.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4660 Spring Grove Ave., Cincinnati, O.

2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

COST ACCOUNTING—See also Bookkeeping Machines

Irving-Pitt Mfg. Co., Kansas City, Mo.

6201. *Records That Talk.* Loose leaf accounting system.

CRANES

Kochring Co., 31st & Concordia Sts., Milwaukee, Wisc.

3712. *Kochring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Colonial Fireplace Co., 4603-4617 West 12th St., Chicago.

6681. *Everything for the Fireplace.* Catalog. Illus. Covers line of grates, andirons, dampers, mantels and kindred products.

H. W. Covert Co., 137 E. 46th St., New York.

6321. *Covert Improved Throat and Damper.* 3-part assembly.

Donley Bros. Co., 13920 Miles Ave., Cleveland, Ohio.

29513. *Donley Dampers.* Booklet Illus. Complete line.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.

6361. *Mesker Fireplace dampers and ash dumps.*

Sykes Metal Lath Co., Niles, O.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DASH—See Stucco Dash

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.

4531. *Circular No. 2.* Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass

DIRECT MAIL ADVERTISING—See Mailing Lists

DISAPPEARING BEDS—See Beds, Door

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.

2281. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.

Truscon Steel Co., Youngstown, O.

4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog.

DOORS, WOOD

Combination Door Co., Fond-du-lac., Wisc.

2751. *Easy-Change Combination Doors.* Catalog H. Illus.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo

3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Roddis Lumber & Veneer Co., Marshfield, Wisc.

6431. *Roddis Genuine African Mahogany Doors.* Describes flush type doors in all woods, plain or figured.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.

4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds

Wheeler, Osgood Co., Tacoma Wash.

5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31 Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.

4003. *Mdeor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Beds, Door; also Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.
2421. *Surveying Instruments.* Catalog No. S. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

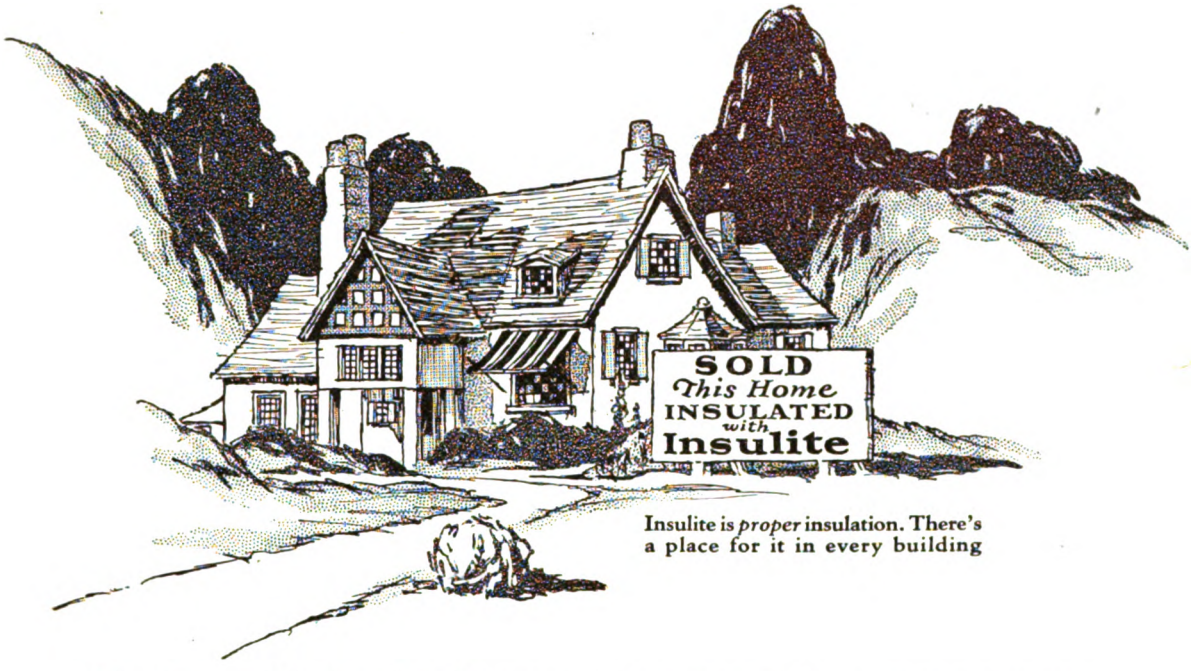
Beckmann Co., L., 1002 Jackson Ave., Toledo, Ohio.

2421. *Convertible Level* included in catalog. 80 pp.

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Insulite is *proper* insulation. There's a place for it in every building

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BUILDERS EXCHANGE BLDG., MINNEAPOLIS.

Insulite

SHEATHING • PLASTER-BASE • WALL BOARD

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Selected List of Manufacturers' Literature

(Continued from page 178)

Empire Level Mfg. Co., 313 First Ave., Milwaukee, Wis.
6271. *Empire Levels.* With patented interchangeable vial case.
Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.
Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments
C. F. Pease & Co., 813-821 No. Franklin St., Chicago, Ill.
6221. *General Catalog G.* 372 pp. bound in cloth. Illus. Includes index reference to complete line of drafting and surveying instruments. Book sent only to builders operating drafting room or using surveying instruments on a large scale.
6222. *Blue Printing Machinery.* Catalog M23. 64 pp. Illus.
6223. *Photographic Lamps.* Folder, 44 pp. Illus.
6224. *Sheet Dryer.* 8 pp. Illus.
White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)
Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT
Frank Adam Electric Co., St. Louis, Mo.
6041. *Panel Board Hand Book.* Catalog. Contains data for contractor and electrical engineer.
Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.* Illus.
Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No.* 26. Completely wired lighting fixtures.
General Electric Co., Bridgeport, Conn.
3215. *G-E Farm Book.* Y-1948. 30 pp. Electricity on the farm.
3216. *G-E Welding Electrodes.* Folder.
3217. *Wires and Cables.* 85 pp. Illus. 4 bulletins.
3218. *Electric Fans.* Folder gec-20. 6 pp. Illus.
3219. *Multiply Conveniences by Three.* Folder GEC-25. 4 pp. Shows use of three devices from one outlet.
32111. *Cord Switch.* GEC-7. 4 pp.
32112. *For Dependable Soldering.* GEC-6. Soldering paste.
32113. *Oh, Boy, Now for DX.* 4 pp. On new model G-E Tungar Battery Charger.
32114. *G-E Tungar Battery Charger.* Leaflet GEC-19. 2 pp.
32115. *G-E Wiring System for Lifetime Service.* GEC-2. 6 pp.
32116. *The Home of 100 Comforts.* 40 pp. Y-1834. Complete treatise on adequate wiring. 25 cents.
Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42nd St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.
5003. 1926 *Catalog.* For electrical contractors.
Guth Co., Edwin F., St. Louis, Mo.
7111. *Guth Lite. Folder.* Fixture in plain and ornamental types.
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3312. *Architect's Handbook.* 18 pp. Illus. Specifications.
3313. *Tumbler Switch.* Folder. 4 pp. Illus.
3315. *H & H General Catalog "S."* Includes new listings of flush, snap and canopy switches and candle sockets and receptacles.
Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.
Kohler Co., Kohler, Wisc.
6692. *Principle and the Proof.* Booklet. 32 pp. Describes private electric plants. Automatic, 110 volt, no storage batteries.
Marco Light and Power Corp., Lansing, Mich.
7151. *Electric Plant Power with "New-Way" Engine.* Catalog M-27.
Paramount Electric Co., 251 Y Market St., Philadelphia, Pa.
7181. *General Catalog.* Complete line of fixtures.
Stairway Switch Co., 235 Brookdale Ave., Glenside, Pa.
7051. *Stairway Switch.* Installed beneath cellar stair treads for automatic light control.
Western Elec. Co. (See Graybar Electric Co.)

ELEVATORS
American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No.* 22. Contains description of hoists.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.
Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Details of Specifications.* The Service Department provides individual sheets to meet the specific needs of elevator users.
Sedgwick Machine Works, 156 West 15th St., New York.
4551 *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT
McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp., Illus.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES
Fuller & Johnson Mfg. Co., 406 Ames St., Madison, Wisc.
6791. *Bulletin No.* 430. Engines for use with concrete mixers.
6792. *Bulletin No.* 500. Two Cylinder Engines for industrial work.
Novo Engine Co., Lansing, Mich.
4221. *Industrial Power Units.* 12 types of drive.

EXHAUSTERS—See Blowers; also Ventilators

FANS—See Blowers

FIBRE BOARD LUMBER—See Wallboard

FINISHES, PLASTIC—See Plastic Finish

FIREPLACE FURNISHINGS
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.
Colonial Fireplace Co., 4603-4617 West 12th St., Chicago.
6681. *Everything for the Fireplace.* Catalog. 48 pp. Illus. Covers line of grates, andirons, dampers, mantels, etc.
H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.
Jacobson Mantel & Ornament Co., 322 East 44th St., New York.
6961. *Architecture and the Chimneypiece.* 10 pp. Illus.
Pioneer Fireplace & Supply Co., 3329 West Lake St., Chicago.
5721. *Fireplaces.* Booklet. Deals with various types.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE
General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.
A. C. Horn Co., Long Island, N. Y.
6599. 16 *Floor Problems and How to Solve Them.*
Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Treatment for Floors, Woodwork and Furniture.* 32 pp.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING
Arkansas Oak Flooring Co., Pine Bluff, Ark.
6851. *Perfection Brand Oak Flooring.* Size and grade for every type of structure.
Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.
Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples. Standard and junior clips for anchoring wood floors to concrete.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Crooks-Dittmar Co., Williamsport, Pa.
6621. *Cromar Ready Finished Oak Flooring.* Concerns manufacture, selling and laying varnished and waxed flooring.
Eaglesfield Flooring Co., 914 Dorman St., Indianapolis, Ind.
6331. *Illustrated Book.* Designs in natural colors of parquetry and hardwood floors of Indiana quartered white oak.
Jackson Lumber Co., Lockhart, Ala.
5772. *Dixie Rift Flooring. Booklet.* End-Matched Flooring.
Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.
Maple Flooring Mfrs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors* Booklet. 16 pp. Deals with laying and finishing.
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3934. *The Floor Which the Years Will Make Precious.* Folder.
3935. *A Floor of Captive Sunlight.* Illus. Folder.
3937. *Folder.* 1½-inch face maple, beech or birch.
39312. *Grading Rules.* Booklet. 8 pp.
Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus
Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.
Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

FLOORING, COMPOSITION
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6382. *Genasco Asphalt Mastic Booklet.* 32 pp. Illus.
Rochond Co., Van Wert, O.
4463. *Rochond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial
Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Sanders

FLOOR SURFACING MCHY.—See Sanders.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FLUE LINING
W. S. Dickey Clay Mfg. Co., Birmingham, Ala., Chattanooga, Tenn., Kansas City, Mo., Macon, Ga., Texarkana, Tex.
6101. *Dickey Fire Clay Flue Lining.* Catalog.

FORMS—See Concrete Machinery

FRAMES, DOOR AND WINDOW
Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Frames.* 48 pp. Illus. Complete catalog.
2242. *How To Test Window Frames.* 12 pp. Illus.
Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5202. *Windows, Doors and Frames.*

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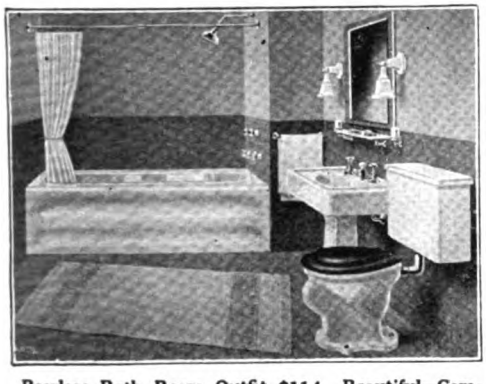
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Saves YOU UP TO 40%

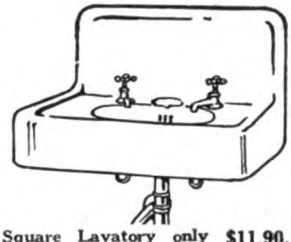
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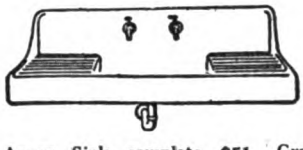
Peerless Bath Room Outfit $114. Beautiful—Complete, without shower. Bath tub: Built-in apron pattern 30"x5'. Enam. inside and out. **Tub** comp., **$64.50. Closet:** deep seal syphon, wash down type with jet. Large high grade **solid porc. tank.** Heavy interior fixtures. **Lavatory**—square ped. type. High grade porc. enam. 20x24" slab. Nickel plated fixt. and pipes. Pop-up waste fixture. China knobs. Singly **$30.** Shower equipment **$12** extra.



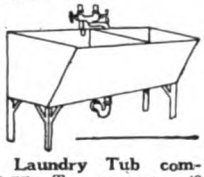
Lavatory comp. $11.70. Newest style, porc. enamel cast iron. 17x19 in. 6 in. back. Nickel plated cocks, trap and pipes, 18x21 in. size with 8 in. back **$12.50.**



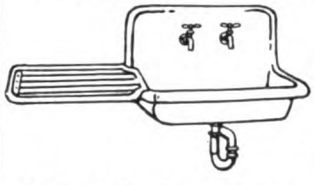
Square Lavatory only $11.90. Porc. enam. cast iron. 18x24 in. 10 in. back. Equipped with China indexed **nickel plated** compression cocks. Nickel plated trap and supply pipes to floor or wall **$4.20** extra.



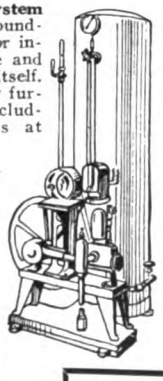
Apron Sink complete $51. Porc. enam. 62 in. Double drain board. Nickel plated faucets and trap. Supported on wall hangers.

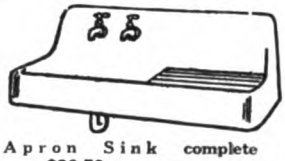


Granitine Laundry Tub complete $12.55. Two compt., 48 in. This tub is specially made and can be depended on. $2.25 mixing faucet **free** with each tub.



Electric Automatic Water System complete $87.50. Furnishes abundance of running water in homes or institutions. Absolutely dependable and made of finest materials. Runs itself. Requires no attention. Evrything furnished complete at this price, including 42-gal. tank. Larger tanks at slight additional cost.



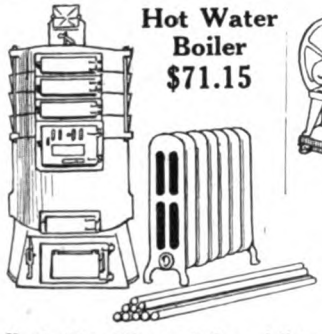


Apron Sink complete $30.70. Porc. enam. 42 in. R. or L. drain board. Nickel plated faucets and trap. Supported on wall hangers. **Roll rim sink $26.**

Sink with Reversible [illegible] board complete **$18.25.** Porc. enam. with reversible drain board. Nickel plated faucets and trap. Size 18x24 in.



Solid Vitreous China Closet Complete $19.80. Heavy cast brass parts. Syphon, wash down type with jet.

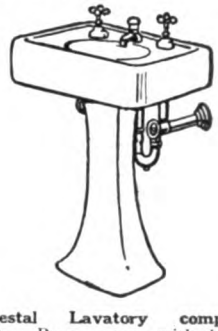


Hot Water Boiler $71.15

Karol Hot Water Boilers—deliver every ounce of heat and are very economical on fuel. Corrugated sections with back and forth fire travel. 700' rating boiler **$71.15. Other sizes at low prices.**



Karol Hot Air Furnace with double heating surface. Cannot leak, smoke or gas. Solid gas fire pot, radiator and base plate. Burns any fuel, gives intensive heat. Send for full description. 18 in. fire pot seven room size **$56.98.** Other sizes at low cost. **Karol Pipeless Furnace** seven room size **$69.00.**



Pedestal Lavatory complete $34. Porc. enam. with heavy brass nickel plated fittings. Size 20x24 in., 32 in. high. Equipped with newest hot and cold water mixing valve.



Galvanized Range Boiler. 30 gal. size complete with stand, fittings and circulating tube **$8.50.**

Combination Gas Boiler complete **$20.** Economical. Keeps hot water in tank at all times.

B. Karol & Sons Co.

Dept. 26, 800-802 So. Kedzie Ave.

Chicago, Ill.

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Selected List of Manufacturers' Literature

(Continued from page 180)

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.
Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS—See Incinerators

GARBAGE RECEIVERS
H. W. Covert Co., 137 E. 46th St., New York.
6323. *Covert Garbage Receivers.* Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.
Majestic Company, Huntington, Ind.
3903. *Garbage Receivers.* Catalog of Majestic products

GAS PRODUCERS
Detroit Suburban Gas Plant Co., Detroit, Mich.
5831. *Literature.* For suburban homes.

GLASS
American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.
Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Store Fronts.* 36 pp. Cuts and details.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Factrolite and Pentecor wire glass.
4012. *Factrolite.* Describes this type of diffusing glass.
4013. *Pentecor.* Combination rib and prism wire glass.

GLAZING COMPOUND—See Caulking

GLUE POTS
Barker & Co., B. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.
Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.

GRADEFINDERS—See Drafting & Surveying

GRATINGS, STEEL
Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6842. *Steel Grating.* For flooring, runways, etc.

GRILLES—See also Registers
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM
United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware, Window and Door

HARDWARE
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.* Relation of brass and copper to the home.
Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps,* door hangers, store ladders, etc.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. Working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises and Manual Training Benches.* Illus.
4429. *Booklet.* Ill. Describbe big door hardware for round houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.*
4522. *Sargent Door Checks.* Folder. Illustrated.
Stanley Works, New Britain, Conn.
6671. *Hardware—Window, Door and Garage.*
6672. *Detail Manual.* Shows application of all Stanley Hardware.

HARDWARE, SLIDING DOOR—See Hardware, Window and Door

HARDWARE, WINDOW AND DOOR
Allith-Prouty & Co., Danville, Ill.
6051. *King Take-apart Adjustable Hinge.* Literature. Describes adjustable screen door hinge and other A.-P. products—fire and garage door hardware, door hangers, overhead carriers, spring hinges, rolling ladders.
Austral Window Co., 101 Park Ave., New York.
6081. *Austral Sash Sustainer.* Device for replacing weights on sash not exceeding 18 lbs. Sample, 50c a set.
Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.
Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.
Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*
Coburn Trolley Track Mfg. Co., Dept. G-1, Holyoke, Mass.
6751. *Sliding Door Hardware for Garages, Factories, Warehouses.* Catalog No. 140.
Ideal Sash Supporter Co., Kingston, Pa.
6121. *Ideal Window Sash Supporters.* Literature. Describes supporters used in sets of four on each sash.
Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.
Lyons Mfg. Co., New Haven, Conn.
5281. *Lymco Casement Window Adjusters.* Folder. 4 pp. Illus.
McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Include working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Pullman Mfg. Co., Rochester, N. Y.
4371. 15 *Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog 40.* Sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.
Stanley Works, New Britain, Conn.
6671. *Hardware—Window, Door and Garage.*
6672. *Detail Manual.* Shows application of all Stanley Hardware.
Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HARDWOOD FLOORING—See Flooring

HEATING EQUIPMENT—See also Ranges
American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.
Andrews Heating Co., 2901 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.
Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.
Buffalo Co-operative Stove Co., Buffalo, N. Y.
Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.
H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly for various types of fireplaces.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.
Kalamazoo Stove Co., Kalamazoo, Mich.
7201. *Pipe Furnaces and One Register Types.*
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Majestic Company, Huntington, Ind.
3902. *Ash Pit and Clean Out Doors.* List of Majestic products.
Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.
Silent Automatic Corp., 255 Meldrum Ave., Detroit, Mich.
7041. *Silent Automatic Oil Burner.* Describes operation in detail.
Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* 10 cents.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.
United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.

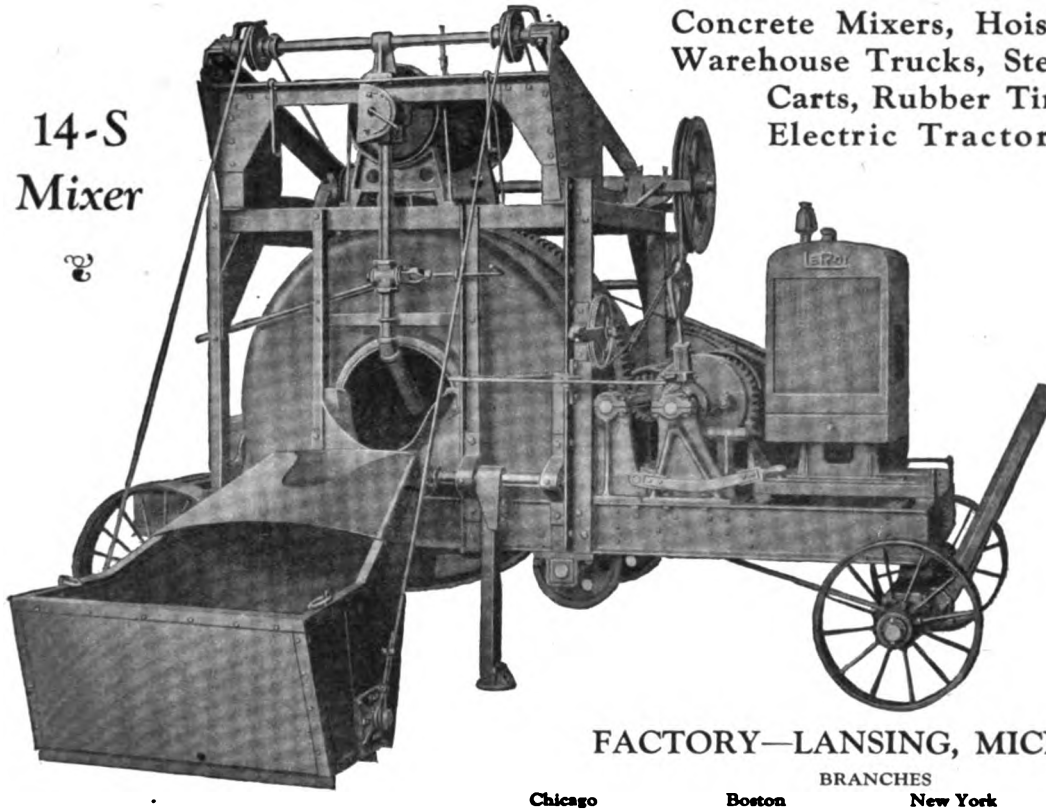
HORSES—See Scaffolding

HOUSE MOVING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS
Buffalo Co-operative Stove Co., Buffalo, N. Y.
5821. *Sanotype No. 10.* Deals with gas burning of garbage.
5822. *Sanotype No. 1.* Coal burning for toilet and garbage.
5823. *Isolator.* Gas burning. Hospital.
5824. *Amherst Incinerator.* Booklet. Gas burning garbage destroyer.
5825. *Amherst Incinerator.* Folder.
5826. *Toilet and Waste Destroyer.* Booklet. For coal, coke or wood.
5827. *General Catalog.* Covers entire line.

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14-S
Mixer



Concrete Mixers, Hoists, **Wheelbarrows,** Warehouse Trucks, Steel **Scrapers, Hand** Carts, Rubber Tired **Wheels, Skids,** Electric Tractors, **Fibre Wheels, Trailer Trucks.**

Nearly half a century of manufacturing and distributing experience is back of Lansing Products. Buyers of Lansing equipment are assured of prompt shipment, efficient repair service and low freight rates.

Send for Catalog No. 12 and No. 19-C.

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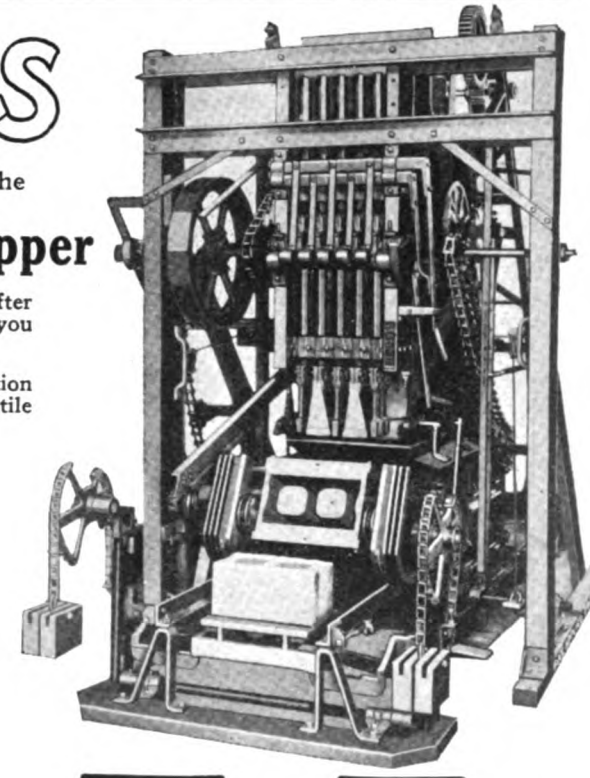
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Keep up your production of Block and Tile with the

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It's been a big year so far—it will continue to be if you go after the business. Remember, you cannot *Sell* Block and Tile unless you make 'em.

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Selected List of Manufacturers' Literature

(Continued from page 182)

Kerner Incinerator Co., 727 East Water St., Milwaukee, Wis.
3641. *The Sanitary Elimination of Household Waste.* Folder M-30.

INJECTERS—See Water Systems

INSULATION

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisakraft.* Samples to show composition—two layers No. 1 Kraft, 2 layers Asphaltum, 2 layers Javas sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protectvie Products.* Booklet. 14 pp. Illus.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus. Deals with Bishopric Stucco and Sunfast finishes.

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Insulating Quilt.* Booklet. 24 pp.
2595. *Cabot's Deadening Quilt.* Booklet. 28 pp.

Celotex Co., 645 North Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.*
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6821. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Matcrials.* 22 pp. Illustrated.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature.

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4x8 ft. and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus.

IRONING BOARDS—See Built-In Features

JACKS, BUILDING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL

General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

KITCHEN SINKS

Kohler Co., Kohler, Wisc.
6691. *Kohler Line.* Bathroom fixtures and plumbing equipment.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5956. *Is Your Sink a Yard Stick High?* Folder in color.

LAMP STANDARDS

Geo. L. Mesker & Co., Evansville, Ind.
63611. *Mesker Cast Iron Lamp Standards.* White Way lamp posts. Includes stock models and special designs.

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES

Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.
7801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS

Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofing.* Literature. Illus.
5944. *Copper Flashings.* Hand-Book.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING FIXTURES—See also Electrical Equipment

Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Completely wired lighting fixtures.

Guth Co., Edwin F., St. Louis, Mo.
7111. *Guth Lite.* Folder. Fixture in plain and ornamental types.

Jacobson Mantel & Ornament Co., 322 East 44th St., New York.
6962. *Grinling Gibbons Electric Light Wall Fixtures.*

Paramount Electric Co., 251 Y Market St., Philadelphia, Pa.
7181. *General Catalog.* Complete line of fixtures.

LIGHTNING RODS

Copper & Brass Research Assn., 25 Broadway, New York.
5945. *Side Tracking Lightning.*

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME

Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*

National Mortar & Supply Co., Pittsburgh, Pa.
6771. *Banner Finish Specifications and Other Descriptive Literature.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

LINOLEUM—See Flooring

LUMBER AND WOODWORK

Arkansas Soft Pine Bureau, 801 Boyle Bldg., Little Rock, Ark.
6441. *Handbook.* Includes finishing instructions. Samples of natural and finished panels.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
2613. *Some "Dollar-Sense" About Lumber on the Farm.* 32 pp. Construction details with description.
2614. *Introducing "Cal" Pine, Guardian of the Grades.* 50 pp.

Chicago Millwork Supply Co., 1400 West 37th St., Chicago.
5871. *Millwork and Building Material Catalog.* Illus.

Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5203. *Interior Finish in Hardwood.* F-L line of mouldings, etc.

Gumwood Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
6231. *Beautiful American Gumwood.* Booklet. Describes application of Gumwood for paneling and interior woodwork.

Hartmann-Sanders Co., Elston and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.

Jackson Lumber Co., Lockhart, Ala.
5771. *Builders Lumber.* Literature. Illus.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3815. *Post Everlasting.* 16 pp. Illus. Information on creosted yellow pine fence posts.
3816. *Sentinels of Service.* 32 pp. Creosoted yellow pine poles.

Maple Flooring Mfgs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors.*
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3936. *What You Can Do With Wide Face Flooring.* Folder.
3938. *Long Service From Short Lengths.* Folder. Gives suggestions on floors of Maple, Beech or Birch.
39312. *Grading Rules.* Booklet. 8 pp. Gives rules for Maple, Beech and Birch Flooring.

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
5901. *The Charm of Modern Oak.* Booklet. Tells of the Renaissance of Oak for woodwork finish.
5902. *The Charm of The Sovereign Wood.* 80 pp. 100 plates.

Roddis Lumber & Veneer Co., Marshfield, Wisc.
6431. *Roddis Genunie African Mahogany Doors.* Describes Flush-type doors in all woods, plain or figured.

Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.

West Coast Lumber Trade Extension Bureau, 5562-E Stuart Bldg., Seattle, Wash.
6741. *Treatise on Douglas Fir.* Douglas Fir for scaffolding, for concrete form, structural timbers and many interior uses.

Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Development of Western Pine industry.

LUMBER, ASBESTOS—See Asbestos Products

MACHINES, BOOKKEEPING AND ADDING—See Bookkeeping Machines, also Adding Machines.

MAIL BOXES—See Built-In Features

MANTELS—See Fireplace Furnishings.

MARBLE

Marietta Mfg. Co., 91 Brookside, Indianapolis, Ind.
7141. *Sani Onyx Vitreous Marble.* In six surface textures—Flame Glaze, Semi Matte, Matte, Tapestry, Polychrome and Embossed.

MARQUISES

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6366. *Marquise and Suspended Metal Awnings.*

METALS AND METAL BUILDING SPECIALTIES

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* 24 pp.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6841. *Tru-Tyc Steel Bridging.* Steel tension bridging holding without nails.

Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.

Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Brass Pipe containing Alpha crystals.

Copper & Brass Research Assn., 25 Broadway, New York.
5946. *Practical Brass Pipe Plumbing.* Hand-Book.
5947. *Brass Pipe Plumbing for Your Home.*
5945. *Side Tracking Lightning.* Shows annual loss from lightning and use of copper rods to save buildings.
5944 *Copper Flashings.* Hand-Book.
5948. *The Story of Copper.* Tells use of copper, brass and bronze through the ages.
5949. *Screens That Keep Them Out.* Copper and bronze screen-cloth.
59411. *Physical Properties of Copper.* Hand-Book for engineers.

Donley Bros. Co., 12920 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.

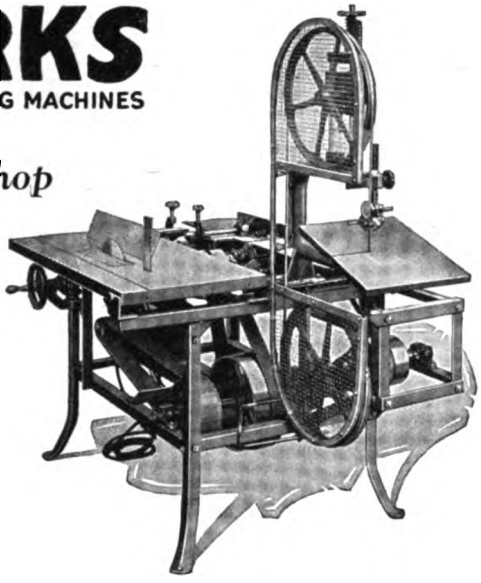
Edwards Manufacturing Co., Cincinnati, O.
2901. *Edwards Metal Roofing*, etc. Catalog. 224 pp. Illus.

General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16F2 20 pp. Illus. Includes information on bridging, etc.

Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.

PARKS
WOODWORKING MACHINES

Cabinet Shop Special
$290
with motor



See this Parks *this month*

October is "Parks Cabinet Shop Special Month" with Parks dealers everywhere. In their showrooms this wonderfully popular woodworker will be on display and in many instances in actual operation.

Parks Cabinet Shop Special No. 10 at $290.00 is the handiest machine Parks ever built! Big enough to turn out first-class work—small enough to fit in a small shop or your basement—a real machine built for real work without freakish "stunt" designing. It makes practically any cut and includes rip and cut-off circular saw, jointer, and band saw. Lathe and shaper may be added at small extra cost. Every man who does cabinet making or woodworking of any kind wants this splendid machine. It is the biggest woodworking machinery value on the market today. Be sure to see this Parks this month

in these dealers' showrooms

ALA.: Moore, Handley Hdwe. Co., Birmingham; McGowin-Lyons Hdwe. & Supply Co., Mobile; Alabama Mchy. & Supply Co., Montgomery. ARK.: Ben D Schaad Mchy. Co., Little Rock. CAL.: Shaw-Palmer & Bakewell Co., Los Angeles; Harron-Rickard & McCone Co., San Francisco. COLO.: H. W. Moore Equipment Co., Denver. CONN.: Lunt, Jillson Co., Manchester. FLA.: Cameron & Barkley Co., Jacksonville; Cameron & Barkley, Miami; Cameron & Barkley, Tampa. GA.: R. S. Armstrong & Bro. Co., Atlanta. ILL.: Woodworkers' Tool Works, Chicago. KY.: Roy C. Whayne Supply Co., Louisville. LA.: Clark D. Shaughnessy Co., New Orleans. MASS.: Lunt, Jillson Co., Boston. MICH.: Riverside Mchy. Depot, Detroit; McMullen Mchy. Co., Grand Rapids. MINN.: Raymer Hdwe. Co., St. Paul. MO.: Standard Machine Tool & Supply Co., Kansas City; S. T. Hatcher & Co., St. Louis. NEB.: Diehl Mchy. & Supply Co., Omaha. N. Y.: Interstate Mchy. Co., Troy; Chas. B. Mapps, 178 Lafayette St., New York City. N. H.: Brackett & Shaw Co., Somersworth. N. CAR.: Amer. Hdwe. & Equip. Co., Charlotte; Raleigh Iron Works Co., Raleigh. OHIO: J. C. Baker, Columbus. OKLA.: Universal Supply & Mchy. Co., Tulsa. ORE.: Portland Mchy. Co., Portland. PA.: K. O. Ditmars, Bourse Bldg., Philadelphia; Coblentz Tool & Supply Co., Erie. S. CAR.: Cameron & Barkley Co., Charleston. TENN.: Peglar Mchy. Co., Chattanooga; Iddins Mchy Co., Knoxville; Harvill Supply Co., Nashville; Carriage & Wagon Supply Co., Memphis. TEX.: Universal Supply & Mchy. Co., Amarillo; Southern Implement Supply Co., Dallas; Don A. Carpenter & Co., El Paso; Peden Iron & Steel Co., Houston; Peden Iron & Steel Co., San Antonio. UTAH: Salt Lake Hdwe. Co., Salt Lake. VA.: James McGraw, Inc., Richmond. W. VA.: LaLance Equip. Co., Huntington. WIS.: Shadbolt & Boyd Co., Milwaukee. WASH.: Union Mchy. & Supply Co., Seattle. FOREIGN: Sipe Mchy. Agency, San Jose, Costa Rica; P. I. Zayas, Havana, Cuba; Weir Mchy. Co., Vancouver, B. C.; Morris, Black & Matheson, Ltd., Auckland, N. Z.; West India Mchy. & Supply Co., San Juan, P. R.; Bourneval & Co., Montreal, Can.; Engineering Supply Co. of Australia, Ltd., Brisbane, Australia.

See this Parks by all means! If you can't, then write us for circular No. 10 and the new Parks catalog.

The Parks Ball Bearing Machine Co.

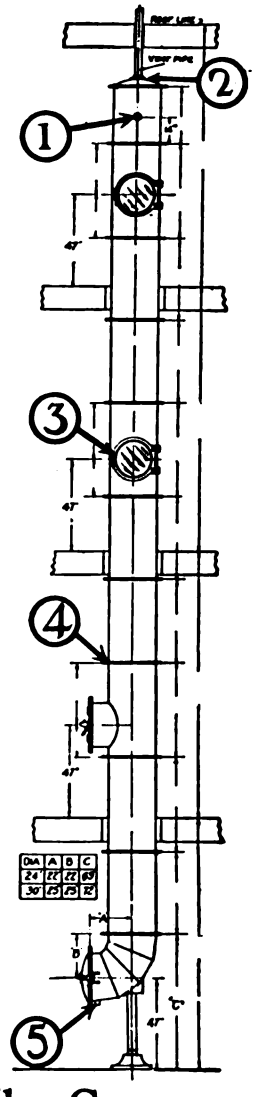
Station "A," Cincinnati, Ohio
Canadian Factory: 200 Notre Dame East, Montreal, Canada

Pfaudler

Recent Glass Lined Laundry Chute Orders . . .

—include the following:

St. Agnes Hospital, Baltimore, Md.
St. Mary's Hospital, Amsterdam, N. Y.
Good Samaritan Hospital, Cincinnati, Ohio
Ancher Hospital, St. Paul, Minn.
Hospital of the Good Samaritan, Los Angeles, Cal.
Mary Immaculate Hospital, Jamaica, L. I.



The drawing at the right is taken from our booklet giving complete details. Referring to diagram:

1. 1½" pipe bushing for connection to water service pipe. This is for flushing the chute and keeping it sanitary.
2. 3" coupling for ventilator pipe.
3. German silver door fitted with plate or polished wire glass—this is the only part of chute which shows on each floor.
4. Special "Pfaudlerite" Gasket for each joint.
5. 2" standard pipe outlet threaded for drain connection carrying off water after flushing.

Send for complete catalog.

Pfaudler

The Pfaudler Company
Laundry Chute Division
Rochester New York

LAUNDRY CHUTES
PFAUDLER glass lined

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Selected List of Manufacturers' Literature

(Continued from page 184)

F. D. Kees Mfg. Co., 20 High St., Beatrice, Neb.
6261. *Metal Corners for Wide, Colonial Siding.* Kees metal corners to give buck-mitred corner effect.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6367. *Mesker Metal Ceilings.*
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No. 27.* 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.
Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Describes lead coated sheets, roofing, etc.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

MORTAR BOARDS AND BOXES
Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.
2735. *Something New in Stucco.* Folder. 8 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
65911. *Staybrite.* Dry and paste colors. Folder and color card.
C. K. Williams & Co., 636 N. 13th St., Easton, Pa.
6601. *Anchor Brand Mortar Colors and Cement Colors.* Folder.

MOTOR TRUCKS AND ACCESSORIES—See Trucks, Motor and Trucks, Motor-Supplies

NAILS, MASONRY—See Masonry Nails

NAILS, ROOFING—See Roofing

OIL BURNERS—See Heating Equipment

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*
6363. *White Way Posts.* 24 pp. Illus. Cast Iron Lamp Standards.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

ORNAMENTS
Jacobson Mantel & Ornament Co., 322 East 44th St., New York, N. Y.
6963. *Compo Ornaments for Application to Woodwork.* Take place of wood carving on mirror frames, mantel pieces, over mantel, etc.

PACKAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating, industrial paint, acid proof paint, battery paint.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
A. C. Horn Co., Long Island City, N. Y.
65912. *General Line.* Color cards and specifications.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. ***Portfolio of Wood Panels.*** 14 pp. Contains actual panels.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for dampproofing, waterproofing, enameling.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4782. *Science and Practice of Integral Waterproofing.* Illus. 33 pp. Contains specifications for waterproofing mass, concrete stucco and cement plaster coat.
4783. *Technical Pamphlet No. 8.* Booklet. 28 pp. Discusses concrete waterproofing.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
6594. *Symentrex* and *Koncrex.* Color cards for each.

PAINTS, WATERPROOFING—See Waterproofing

PANELS—See Veneer, Wallboard, Panels, Wood

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of Alberene Stone.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PEBBLE DASH—See Stucco Dash

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.
Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Describes Alpha Brass pipe containing Alpha crystals.
Copper & Brass Research Assn., 25 Broadway, New York.
5946 *Practical Brass Pipe Plumbing.* Handbook.
5947. *Brass Pipe Plumbing for Your Home.*

PIPE, CONDUCTOR
Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofings.*
5944. *Copper Flashings.* Handbook.
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head zinc.*
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O. (See listings under Brick.)
L. F. Garlinghouse, 121 W. Sixth Ave., Topeka, Kansas.
6111. *Beautiful Homes.* 6th Edition. 1926 plan book of houses costing $1,000-$8,000. Price, $1.50.
Gowing, Frederick H., 101 Tremont St., Boston, Mass.
7081. *Building Plans for Modern Homes.* 224 pp. Price, $3.00.
7082. *Bungalows.* 150 designs. Price, $1.50
Grieme's Arch. Service Bureau, Engineering Bldg., Cleveland.
7091. *Plan Books and Service.* Offer includes three portfolios. Price $5.00.
Hilton Co., Roy, 407A Kress Bldg., Long Beach, Cal.
7121. *Spanish Homes of California.* Designs with plans. Price, $1.00.
Home Owners' Service Inst., Inc., 441 Lexington Ave., New York.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price 10 cents.
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLASTERING MATERIAL—See Lime, also Fibre

PLASTIC FINISH
Morene Products Co., Inc., 154 East 47th St., New York, N. Y.
6781. *Morene, the Wall Finish Distinctive.* Sample of Portland Cement Product for interior finish.

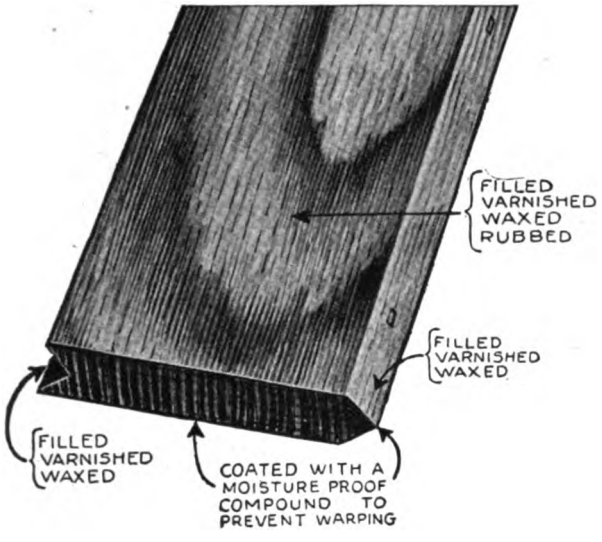
PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing in diagram and information on service and guarantee.
Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet.
Crane Co., 836 S. Michigan Ave. Chicago.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kaustine Co., Inc., Buffalo, N. Y.
6241. *Kaustine Super-Septic Tanks.* Describes Armco Iron Septic Tanks. Include plan and installation advice.

CROMAR

READY FINISHED

OAK FLOORING

Each strip is protected against moisture by coating on all four sides — applied at the factory, by patented machines.



The CROMAR Ten Points of Prime Importance

1. Factory finished — like furniture.
2. Finish stands hardest wear.
3. Coating four sides protects against moisture.
4. V-type tongue and groove easy to lay.
5. Beveled tongue prevents damage in nailing.
6. Cleanable surface groove.
7. Convenient and damage-proof bundle.
8. Laying contracts need not be sublet.
9. Promotes extra sales for occupied houses.
10. Laid and used the same day.

OFTEN the most perfectly seasoned hand-finished flooring will warp or shrink because the underside absorbed moisture after laying. And it is not uncommon for the entire strip to take on moisture while in transit. In fact, the drier the flooring, the more readily dampness penetrates. CROMAR is the only flooring we know of that is treated on all surfaces. In addition to its ready-to-use varnished and waxed finish on face, CROMAR receives a supplementary treatment with a moisture-resisting compound that completely covers back and edges. CROMAR is thus protected in transit, in storage, and *after it is laid.*



Refer to our pages, Nos. 184-185, in the "Home Builders Catalog" for further details. Write us for free sample and complete literature concerning the manufacture, the selling and laying of CROMAR Oak Flooring.

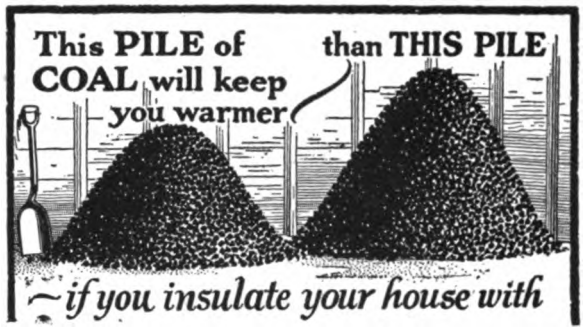
The Crooks-Dittmar Company
Williamsport, Pa.

CROMAR

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OAK FLOORING

LAID AND USED THE SAME DAY



CABOT'S Heat-Insulating "QUILT"

Your house gets cold in Winter because the heat escapes. Quilt stops this and keeps the house warm on the smallest amount of fuel. It will save about one-third of your coal bill—and will keep up this saving and make you comfortable as long as the house stands. Quilt is sanitary and permanent (will not get foul or rot, nor harbor insects or vermin); it is fire-resistant; flexible (can be used anywhere); and low in cost for material and labor.

Send for a sample of Quilt. Free. It's a "comforter" that keeps the whole family warm.

Samuel Cabot

Incorporated

Mfg. Chemists **Boston, Mass.**

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5000 Bloomingdale Ave., Chicago

Philadelphia Kansas City Minneapolis
Los Angeles San Francisco Portland

Agents All Over the Country



Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double Colors, Double White, Waterproof Collopakes, Etc.

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Selected List of Manufacturers' Literature

(Continued from page 186)

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.
Kohler Co., Kohler, Wisc.
6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models.
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.
Republic Brass Co., Cleveland, Ohio.
6661. *Republic Two-Way Service Control.* Folder. Describes control lever of shower.
Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5951. *"Standard" Plumbing Fixtures for the Home.* Catalog. 64 pp. Describes fixtures for bathrooms, kitchens, laundries.
5952. *The Romance of "Standard" Advertising.* Booklet in colors.
5957. *"Standard" Double Faucets.* Folder in colors. Describes double nickeled brass faucets, swinging spout, etc.
Stanley Plumbing Supply Co., 932 Spring Garden St., Phila.
5991. *General Catalog.* Takes up complete line of plumbing and Heating supplies.

PORCHES
Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.

PUMPS
Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.
Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.
Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets.
Monarch Eng. Co., 244 East 1st St., Dayton, Ohio.
7161. *General Catalog.* Features two pole automatic switch.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus.
Novo Engine Co., Lansing, Mich.
4222. *Novo pumps.*

PYROBAR GYPSUM TILE
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS
American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus.
United States Radiator Corp., Detroit, Mich.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp.
Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

RADIATOR CABINETS
Hart & Cooley Co., New Britain, Conn.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4803. *T. & B. Radiator Cabinets.* Describes all-steel cabinet, insulated seat and humidifier.

RADIO PRODUCTS
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment
American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* 24 pp. Direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.
Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.*
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS
Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.

REGISTERS
Hart & Cooley Co., Inc., New Britain, Conn.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
Majestic Company, Huntington, Ind.
3904. *Majestic Line.* Malleable Iron and Copper Steel.
Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF CONSTRUCTION—See Roof Trusses.

ROOFING MACHINERY
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

ROOFING MATERIALS
American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.
2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.
2145. *Eternit Asbestos Lumber.* 12 pp. folder.
2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.
2147. *Instructions for Applying Eternit Asbestos Shingles.*
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating and asphalt putty.
6383. *They Weather All Weather.* Four colors. 24 pp. Latite Shingles and Genasco Sealbac shingles.
6384. *Locked On and New Roofs Over Old.* Booklets. 16 pp. Illus.
6385. *Sealbac Shingle Booklet.* 16 pp. Illus.
6386. *Look under the Surface!* 6 pp. Illus.
6387. *Phoenix Ready Roofing.* 6 pp. Illus.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*
Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Repair and remodeling work on time payment.
Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.
Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.
Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.
Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.
Copper & Brass Research Assn., 25 Broadway, New York.
59412. *Copper Roofings.*
5943. *Real Roofings.*
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35515. *Roofing and Building Material Booklet.*
Keystone Roofing Mfg. Co., York, Pa.
3661. *The Magic Touch of Preston Shingles.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle.
Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.
Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.
Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.
New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated.
Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.
Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.
Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4962. *Making Old Houses Into Charming Homes.* Colored.
4963. *Book.* Devoted to remodeling of old homes.
Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES
McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.
Geo. L. Mesker & Co., Evansville, Ind.
6368. *Standard Steel Bow String Roof Trusses.*

RULES—See Drafting and Surveying

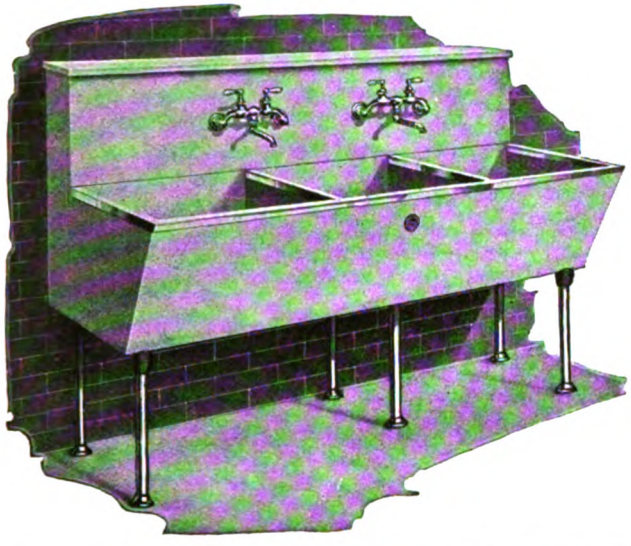
SALAMANDERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29512. *Donley Salamanders.* Leaflet. Illus.

SAND
Jos. Murray & Co., Inc., 257-263 Avenue C, New York.
7001. *White Sand.* Shipped anywheres.

SANDERS
American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago, Ill.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.
Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.

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TIME-PROOF TUBS AND SINKS



These fixtures for laundry and kitchen are mighty hard-worked household necessities, and you want them to stand up long and well.

Put in tubs and sinks of Alberene Stone—Nature's age-old material right from the quarry—and you'll have fixtures that will last as long as the building they're in.

They're very moderate in price—they're non-absorbent, sanitary and easily kept clean—they will not chip or flake or scale off, leaving rough unsightly spots. And their light gray color harmonizes with everything.

ALBERENE STONE COMPANY
153 WEST 23rd STREET, NEW YORK
Baltimore Boston Buffalo Chicago Cleveland Newark
Philadelphia Pittsburgh Richmond St. Louis

Write for the Alberene Style Book describing over 40 standard types in all sizes.

ALBERENE STONE

QUARRIED FOR OVER 40 YEARS
FOR SANITARY WORK, STAIR TREADS AND LANDINGS
STANDARD ALSO FOR LABORATORY EQUIPMENT ELECTRICAL CONSTRUCTION, LAUNDRY TUBS AND SINKS

Speed With Quality—Result—More Profits

TIME is more than ever an essential in present-day building. You can use WEATHERBEST Stained Shingles on side walls as well as roofs and give your houses a finished appearance without waiting for repainting.

You can also save time and labor costs in using WEATHERBEST Stained Shingles. There is no sorting, no bad stock to be worked over or thrown out. WEATHERBEST Stained Shingles are made only of 100% edge-grain Red Cedar shingles preserved by our WEATHERBEST process of carrying color pigments and preservative into the pores of each shingle.

For sidewalls, shades of gray, brown and WEATHERBEST Colonial White or Ivory can be used in 16" lengths laid with 7½" exposure or in 24" lengths with 10 or 11½" exposure. For roofs there are many shades of green, brown, gray, red, even blue in 16", 18" and 24" lengths. For special effects WEATHERBEST Stained Shingles are also furnished in Thatch and Semi-Thatch effect.

WEATHERBEST STAINED SHINGLE CO., INC.
209 MAIN STREET NORTH TONAWANDA, N. Y.
Western Plant: St. Paul, Minn.
Distributing Warehouses in Leading Centers

Duplex House owned by Jacob S. Engel, 1980 Wyoming Ave., Forty Fort, Pa. 24" WEATHERBEST Stained Shingles in gray on sidewalls and 16" green on roof.





Weatherbest STAINED SHINGLES
FOR ROOFS AND SIDE-WALLS

Write for set of color photogravures showing different WEATHERBEST homes in a variety of treatments. Also ask for color samples and book on "Making Old Houses Into Charming Homes."

WEATHERBEST STAINED SHINGLE CO., INC.,
209 Main Street, North Tonawanda, N. Y.
Please send without cost—
☐ Booklet "Making Old Houses Into Charming Homes."
☐ Portfolio of Color Photogravures.
☐ Book on Thatch Construction.

Name.....

Address.....

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Selected List of Manufacturers' Literature

(Continued from page 188)

Lakel Mfg. Co., Jenkintown, Pa.
7131. *Surface Finish.* For A. C. or D. C. current.

Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.
3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus.
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.
4113. *National Floor Surfacing Machinery.* Cat. 26 pp. Illus.
4114. *How and Where to Use Oak Floors.* 16 pp.
4115. *When You Have Scraped Along.* 8 pp.

Reid-Way Co., Cedar Rapids, Ia.
7191. *Reid-Way Sanders.* Used like a plane or inverted for jointing.

Wayvell Chappell & Co., 42 Jackson St., Waukegan, Ill.
6921. *Year to Pay Plan.* Automatic Floor Surfacing Machine.

SANITAS—See Wall Covering

SASH—See Windows

SASH BALANCES—See Hardware, Window

SASH CORDS

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

SCREEN MANUFACTURERS' MACHINERY

J. B. Crofoot Co., P. O. Box 783, Chicago, Ill.
6391. *Crofoot Screen Tacker.* Describes stapling machine that drives 77 staples with one loading. Deals with trial offer.

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.
3942. *Screens for Profit.* Folder. 4 pp. Illus.

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Copper & Brass Research Assn., 25 Broadway, New York.
5949. *Screens That Keep Them Out.* Describes screen-cloth of brass and copper.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures, etc.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEPTIC TANKS—See Plumbing Equipment

SEWAGE DISPOSAL—See Plumbing Equipment

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHEET METAL PRODUCTS—See Metals

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SINKS—See Kitchen Sinks, also Plumbing Equipment, also Bathroom Fixtures.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.

Republic Brass Co., Cleveland, Ohio.
6661. *Folder Two-Way Service Control.* Folder. Describes control lever of shower

White Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich. New York Office and Display. Room 409, Columbia Bank Building, 507-5th Ave. Mr. Harry Parker in charge.
5342. *White Steel Shower Curtain Poles.*

SKYLIGHTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6369. *Mesker Skylights.*

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated literature* on stair treads of Alberene Stone.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

STAIRWAYS, MOVABLE

Bessler Disappearing Stairway Co., Akron, O., or 220 E. 41st St., New York.
2432. *Bulletin. Illus.* Price List.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

Marschke Co., 301 Pioneer Bldg., St. Paul, Minn.
6701. *Marschke Stair.* Describes balanced folding stair.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Catalog.* Mesker Store Fronts. 36 pp. Cuts and details.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Hghts., Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus.

Elastica—see listing under U. S. Material Co.

Flint Rock Stucco Co., Arcade Bldg., Dayton, O.
5682. *Flint-Rock All-Mineral Stucco.* Oxy-Chloride Cement.
5683. *Architex Finish.* Catalog. Illus. Describes specially prepared colored stucco finish coat.

Lehigh Portland Cement Co., Allentown, Pa.
3774. 28*Better Homes.* Lehigh Cement Small House Competition.
3772. *Permanent Satisfaction in Your Building.* Illus. Book.
3773. *The Lehigh Magazine.* New House Monthly.
3774. 28 *Better Homes.* Lehigh Cement Small House Competition.

Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.

Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

U. S. Materials Co., Chicago, Ill.
6071. *Elastica, the Waterproofed Stucco.* Describes product manufactured by this company in Chicago, the American Materials Co. in New York, the Art Stucco Materials Co. in Detroit, and Northwest Materials Co. in St. Paul.

STUCCO AND PLASTER BASES

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two of Asphaltum, two of Java sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6389. *Genasco Stucco Base.* 16 pp. Illus. Stucco Base for use with Portland Cement or Magnesite Stucco.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

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Build and Sell Homes In the Suburbs Now
—Don't Wait for Sewers

"Out to the suburbs," is now the nation-wide cry. The city dwellers want plenty of lawn, green grass, garden, orchard, sunshine, and blue sky. Folks are tired of living where they daily toil for their bread and butter.

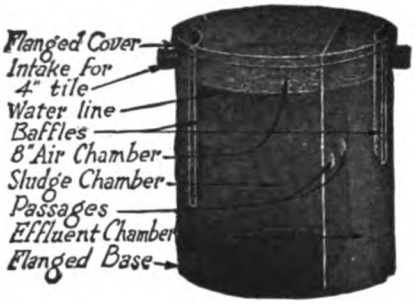
People realize that it is not necessary to live in the city nowadays just for the sake of city comforts and conveniences. Modern homes with sanitary plumbing are now easily procured anywhere The problem of sewage disposal is perfectly solved with the safe—modern, economical



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for all unsewered districts. Don't let lack of sewers worry *you*.

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San Equip Septic Tanks are rust-proofed copperoid iron tanks—correct design—water tight—unbreakable—ready to connect.

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Acids Do Not Harm These Concrete Floors— They're Protected With "ANTI-HYDRO"

The concrete floors in this building are constantly covered with acids and water which would quickly deteriorate them if they were not hardened and waterproofed with "ANTI-HYDRO."

Although these floors have been in constant use for many years, "ANTI-HYDRO" has fully protected them from wear, water and the action of the acids. "ANTI-HYDRO" is a liquid integral agent that mixes easily with the gauging water—no skilled labor is required. It hardens and waterproofs concrete and makes it acid-, alkali- and oil-resisting all in *one operation*.

For 22 years "ANTI-HYDRO" has been the accepted standard. Results are guaranteed *permanent*. Use "ANTI-HYDRO" on your next job.

ANTI-HYDRO WATERPROOFING CO.

265 Badger Ave., Newark, N. J.



L. A. Dreyfus Co. Building, Rosebank, Staten Island — Turner Construction Co., Engineers and Contractors

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Selected List of Manufacturers' Literature

(Continued from page 190)

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
24613. *Looking Behind the Stucco.* Booklet. Illus. Story of Bishopric Base, reinforcing background for stucco and plaster walls.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.
2482. *Bostwick Economy.* Booklet. 30 pp. Non-technical discussion of Bostwick products.

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Celotex Company, 645 N. Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6822. *Literature and Samples.*

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

National Steel Fabric Co., 707 Union Trust Bldg., Pittsburgh, Pa.
7171. 1926-1927 *Overcoat Plan.* Describes re-inforced Stucco Overcoating.

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

STUCCO DASH
C. K. Williams & Co., Easton, Pa.
6602. *Verdolite Stucco Dash.*

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TAPES—See Tools

TELEPHONES—See also Electrical Equipment
Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42d St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. 1926 *Catalog.* For electrical contractors.

THERMOSTATS—See Heating Equipment

TILES, FLOOR AND WALL
Lloyd Floor and Wall Tile Co., P. O. Box 5064K. Kansas City, Mo.
5881. *Tile Catalog.* Describes Ceramic Mosaic Floor Tiles, Glazed Wall Tiles and tile trimmings sold direct.

TILE MANUFACTURE
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Mortarless Tile Machine Co., 21-22 Carrillo Bldg., Santa Barbara, Calif.
6531. *Build with Interlocking Concrete Tile.* Describes machine, gives details and typical installations. 12 pp. Illus.

TILE, STEEL
General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.
Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TIRES
Kelly-Springfield Tire Co., 250 West 57th St., New York, N. Y.
6901. *Kelly-Springfield Truck Tires.* Tires for standard sizes.

TOILET INCINERATORS—See Incinerators

TOOLS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.
Empire Level Mfg. Co., 313 1st Ave., Milwaukee, Wis.
6271. *Empire Levels.* Patented interchangeable vial case.
Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.
Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.
Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Cheney Hammers and Prentiss Vises.*
Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.
Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524. *Sargent Planes.* Catalog. 64 pp. Illus.
Starrett Co., The L. S., Athol, Mass.
5981. *Catalog No. 23 "P".* Describes Stainless Steel Tape.
5982. *Starrett's Stainless Steel Tapes.*
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR
Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, MARKING—See Marking Devices

TOWEL RACKS—See Bathroom Fixtures

TRAPS—Steam and Radiator
Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRANSMISSIONS
Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRESTLES—See Scaffolding

TRUCKS—MOTOR
Chevrolet Motor Co., Detroit, Mich.
6091. *One Ton Truck Chassis.* Time payment plan operated through dealers.
Graham Brothers, Detroit, Mich.
6451. *Literature.* Describes Graham Brothers' trucks sold by Dodge Brothers dealers.
International Harvester Company of America, Inc., 6066 S. Michigan Blvd., Chicago.
68711. *International Harvester Trucks.* High speed and heavy duty types.

TRUCKS, MOTOR—SUPPLIES
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.
Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRUCKS, MOTOR—TIRES—See Tires

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment
Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing-in diagram and information on service plans and guarantee.
Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus.

VAULT LIGHTS
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

VENEER AND VENEERING
Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS
Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2542. *Breezo Booklet.* Form 2320. Describes fan unit for domestic use. Installed in kitchen window.
2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.
Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.
Hart & Cooley Co., Inc., New Britain, Conn.
3304. *H & C Cold or Warm Air Ventilators.*
Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.
Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

VISES
Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Prentiss Vises and Cheney Hammers.* Described in literature.

WALLBOARD
Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Uses and methods of handling *Beaver Board.*
Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6823. *Literature and Samples.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.

WALL CONSTRUCTION—See Building Construction

WALL COVERING
A. C. Horn Co., Long Island City, N. Y.
65913. *Tx-Crete.* Texturing material. Folder. For walls and mural decorations.
Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WASTE DESTROYERS—See Incinerators

WATER GAUGES—See Plumbing Equipment

WATER HEATING SYSTEMS
Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.*

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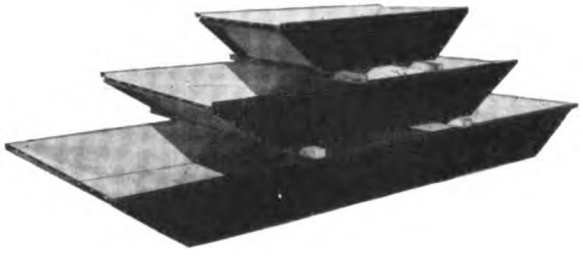
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Don't Let Freezing Weather Stop Your Work



Build A Fire Under These Steel Mixing Boxes

	Depth	Length	Width	Approximate Weight	Gauge
No. 1	10 in.	5' 0"	2' 4"	80 lbs.	14
No. 2	10 in.	7' 6"	3' 6"	140 lbs.	14
No. 3	10 in.	11' 6"	4' 0"	350 lbs.	12

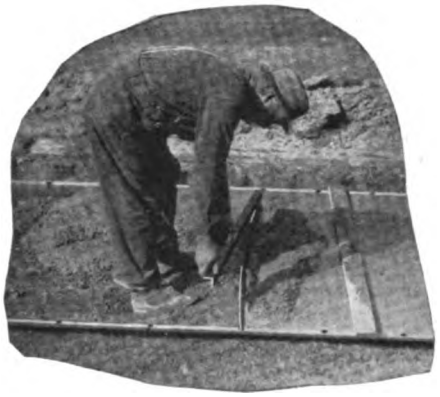
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Smooth, Seamless, One-Piece Bottoms

No up-to-date contractor can afford to use a clumsy, leaky, unhandy, unsightly wood mixing box when HELTZEL all steel boxes can be bought at the above prices.

Why catch your mixing tools in slivers, nails or knots on the concrete which adheres and hardens or put up with cracking or splitting lumber another day when other contractors are using as high as a dozen HELTZEL BOXES?

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Selected List of Manufacturers' Literature

(Continued from page 192)

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.

Humphrey Co., Kalamazoo, Mich.
6031. *Humphrey Automatic Gas Water Heaters.* Literature. Covers entire line.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.

Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Range Boilers.* Literature. Galvanized and copper types.
5892. *Storage Systems.* Literature. Describes automatic, gas-fired types.

Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.
6861. *Anti-Hydro Formula.* For hardening, waterproofing, and dampproofing concrete, stucco and cement mortar.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Points and Insulating Paper.*

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers dampproofing, clear brick waterproofing, and clear cement waterproofing.

General Fireproofing Co., Youngstown, O
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus.

A. C. Horn Co., Long Island City, N. Y.
6598. *A.I.A. File Folder.* Data on dampproofing products.

Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Dampproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Toch Bros., 110 E. 42nd St., New York
5331. *Specifications.* 60 pp. illus catalog. Specifications for dampproofing, waterproofing, enameling.

Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit.
4781. *Spread Sunshine Inside.* Book. Describes methods for light saving through use of light-reflecting enamels.

WATER SOFTENERS—See Water Systems

WATER STORAGE—See Water Heating; also Water Systems.

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Fort Wayne Engineering Co., Fort Wayne, Ind.
6341. *Paul Water Systems.* Describes sies for various types of wells and cisterns.
6342. *Paul Soft Water Generator.* Describes high capacity, small sized softening outfit.
6343. *The Old Oaken Bucket Up-to-Date.* Booklet. Details for builders, dealers and home owners.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Monarch Eng. Co., 244 E. 1st St., Dayton, Ohio.
7161. *General Catalog.* Monarch Water Softener with a single valve.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.

Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.

Chamberlain Metal Weatherstrip Co., Inc., Detroit, Mich.
5551. *Chamberlin Metal Weatherstrip Details.* Catalog. Illustrated.

Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.

Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.

Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*

Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2873. *Standardized Steel Casements.* Catalog. 2-26. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.

Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Steel Casement Windows.* 24 pp. Illus. New edition. Includes photographs and detail drawings.
2922. *Fenestra Basement Windows.* Booklet. 16 pp.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.

Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Takes up complete line Factrolite Wire Glass and Pentecor Wire Glass.
4013 *Pentecor.* Combination rib and prism wire glass.
4012. *Factrolite.* Describes this type of diffusing wire glass.

National Steel Products Co., 6909 S. Water St., St. Louis, Mo.
6761. *National Basement, Factory and Garage Windows.* Standard types of steel in sizes for all purposes.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD—See Frames, Door and Windows

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

Northwestern Expanded Metal Co., 497 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.

American Saw Mill Mchy. Co., 61 Main St., Hackettstown N. J.
2171. *Catalog No.* 21. Describes circular saws of all sizes.
2172. *Contractors' Bulletin No.* 82.
2173. *General Catalog No.* 25. Illus. 192 pp.

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. *Catalog*, 850-54. Describes the *Buffalo* Woodworker.

Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron.* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.

Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.

Crowe Mfg. Co., Cincinnati, O.
7061. *Crowe Safety Saw.* Portable saw with safety guard for use on lumber.

DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.

Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 20 pp. Describes model No. 8, 9 and 12.

Michel Electric Hand Saw Co., 1801 Berenice Ave., Chicago.
6161. *Circular R-3.* Describes applications of *Skilsaw*, a portable electric hand saw.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.

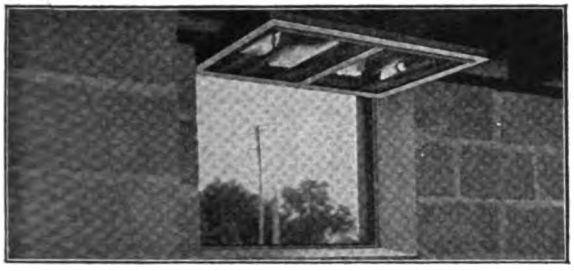
Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.

Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size,
4582. *Booklet.* 12 pp. Illus. Gives additional information.

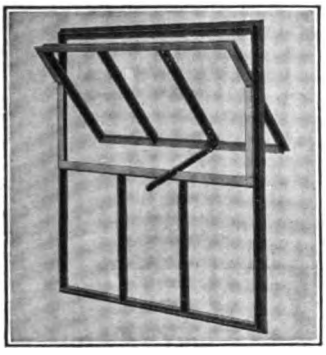
Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.
7022. *Wodack Portable Electric Drills and Grinders.*

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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Bayley Window for basement.



Bayley Utility Window.

A Profit Opportunity

Bayley-Springfield Steel Windows

BAYLEY-SPRINGFIELD Steel Windows are easily sold wherever they are shown. Construction features make for strength and economical installation. Requires less time and labor to install than wood windows and therefore profits are greater. Quantity production makes it possible to price at very close figures.

Windows for Basements

For basements in residences, apartments and other buildings. Just the window for side walls in garages and other small buildings. Cost no more than wood, yet give 50 per cent more light—are fire-proof; resist burglar entrance; do not warp, stick or sag. Holes in steel jambs for screens. Made in four standard sizes.

Utility Windows

This Utility Window is moderate in cost. Usable in buildings of many types and for many purposes. Ideal for garages and similar small structures. Ventilators center pivoted. Each unit has four lights 12 x 20 and two lights 13 x 20.
Ventilator is equipped with standard Bayley-Springfield Lock Bar which holds ventilator in any desired open position and also locks it when closed.

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The Wm. BAYLEY COMPANY

126 North Street, Springfield, Ohio

Sales Agencies in Principal Cities.

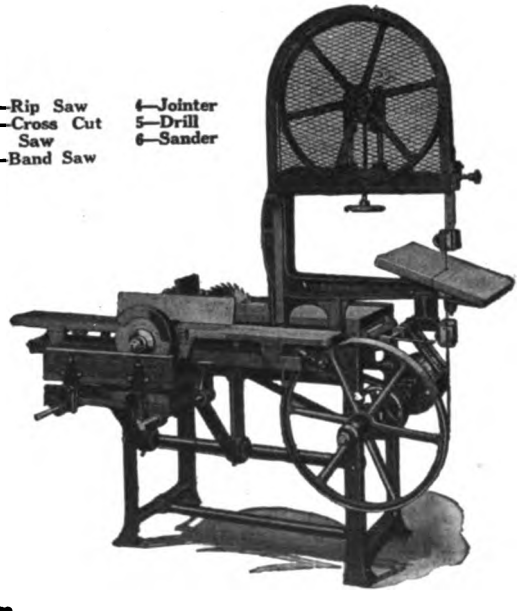
Cut Your Building Costs!

You can do it with a Buffalo No. 2 Combination Woodworker — 6 Machines in 1. Handles practically every woodworking operation, quicker, cheaper, better, right on the job.

Three men can work on it at same time. One-third the cost of special machines.

Buffalo Woodworkers have proved their practical usefulness during the past quarter century. Every part durably constructed and designed to give just as good service as a special machine—at a fraction of the investment. You would never try to get along without it after using it once!

1—Rip Saw
2—Cross Cut Saw
3—Band Saw
4—Jointer
5—Drill
6—Sander



Write for Specifications

"Buffalo" Combination Woodworkers

476 Broadway Buffalo Forge Company Buffalo, N. Y.

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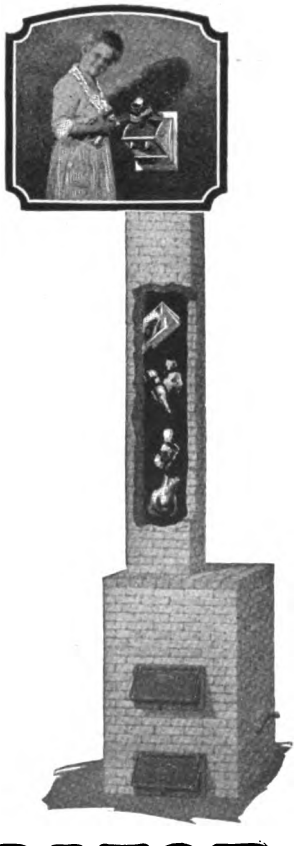


One Word from You Prevents This!

HOW often have you seen proud owners of new homes enthusiastically satisfied but for one thing? *Garbage-drudgery was not thought of in time!* The unsightly, work-creating, germ-breeding garbage can must be tolerated.

How the new owners would have welcomed the suggestion of a Kernerator! In the rush of other matters, they simply overlooked it. And how disappointed they are later when they find that the Kernerator must be built in — it cannot be installed after the building is completed.

Suggest the Kernerator in plenty of time. It will be another step toward assuring satisfied clients.



No Upkeep Cost— No Fuel Required

All waste — not only garbage but sweepings, tin cans, broken glass and crockery, paper, and the like — dropped through the handy hopper doors, falls to the brick combustion chamber, where an occasional lighting is all that's needed. No gas, oil, wood, coke or any fuel required. Metallic objects (tin cans and the like) are flame-sterilized for removal with the ashes.

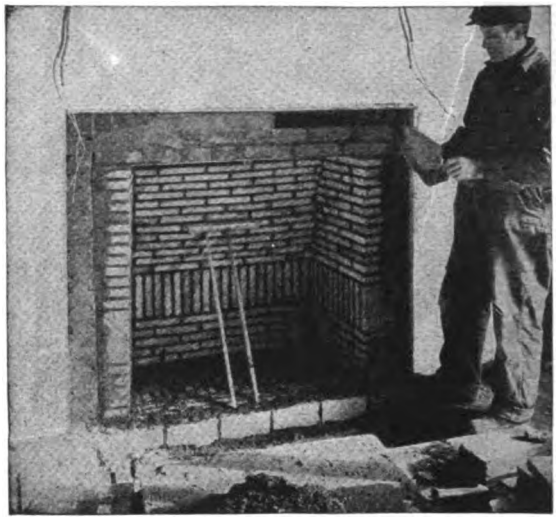
See Sweet's, 1925, Pages 2800-01, or write

KERNER INCINERATOR CO.
727 East Water St., Milwaukee, Wis.

KERNERATOR
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THE CHIMNEY-FED INCINERATOR

"Garbage and Waste Disposal without Leaving the Kitchen"

Building Better Fireplaces



What Causes Fireplaces to Smoke?

BEFORE closing up the opening between damper and rough brick as the mason in the photograph is doing, consider a few of the reasons why fireplaces smoke. Improper construction of smoke chamber, rough masonry in smoke chamber or flue, a damper not as wide as fireplace opening, damper set too low, roughness in fireplace throat, flue too small, or a chimney that's too low are some of the factors that tend to cause smoking. Some of these faults may be remedied before the fireplace is finished.

The elimination of the causes of smoky fireplaces does not involve additional expense. A good fireplace costs no more than a smoky one — it's all in knowing how. The Donley Book of Fireplaces discusses fireplace smoking and contains complete construction plans and details, which if followed carefully, using the Donley Damper and other Fireplace Equipment, will give you a successful fireplace.

The Donley Book of Fireplaces is free. Send for a copy. If you want a Donley Catalog of Building Specialties, ask for it also.

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SOLVES YOUR WATERPROOFING PROBLEMS

To all professions and trades vitally interested in technical paints and waterproofing compounds, the "R.I.W." service should be of unusual value.

This service places at your disposal completely equipped laboratories and expert engineers, to cooperate with you in the solution of your special protective problems.

The same skill and scientific knowledge that has evolved the world-famous "R. I. W." technical paints and waterproofing compounds for steel, concrete, brick and wood is now at your command. Feel free to use it as an ally against the decay, depreciation and destruction of properties.

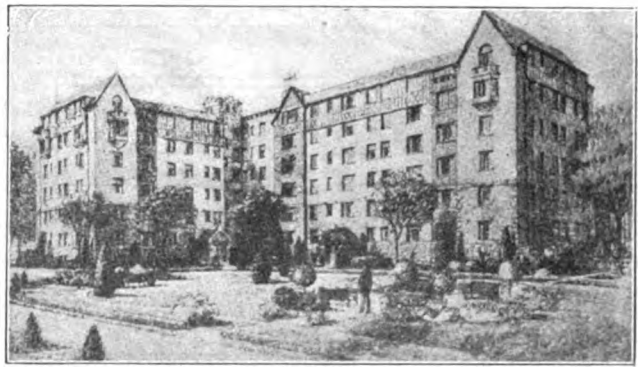
TOCH BROTHERS

Established 1848

Technical Paints — R.I.W. — *Waterproofing Compounds*

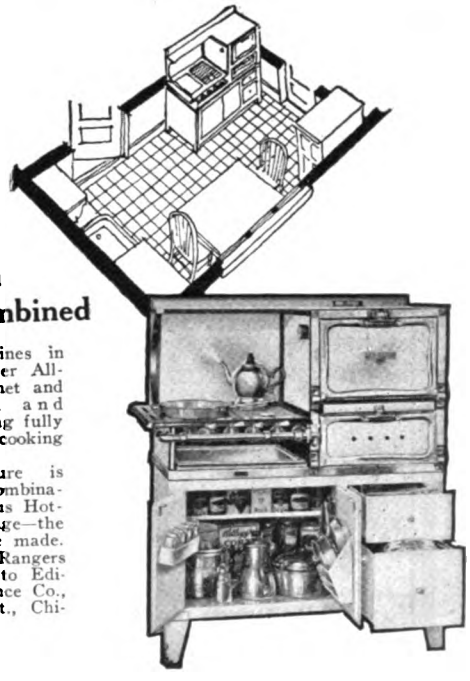
443 FOURTH AVENUE · NEW YORK

Remember It's Waterproof



36 Kab-Ranges for the Locust Arms Apts.

Because Kab-Range saves costly space, because it saves time and steps for the housewife and makes for better order in her kitchen—it is the choice of many successful builders and a recognized aid in renting apartments. The Locust Arms, at New Rochelle, N. Y., is one of many installations made this year.



Range and Kitchen Cabinet Combined

Kab-Range combines in one unit the Packer All-Steel Kitchen Cabinet and Rapid-Fire Oven and Range, cabinet being fully insulated from cooking heat.

Kab-Range feature is also available in combination with the famous Hotpoint Electric Range—the finest electric range made. Electric Kab-Rangers should be directed to Edison Electric Appliance Co., 5600 W. Taylor St., Chicago, Ill.

THE OHIO STATE STOVE & MFG. CO.
Main Office and Factory: Columbus, Ohio
New York Office: 415 Lexington Avenue
Los Angeles Office: 1507 W. 7th Avenue

SIGN AND SEND COUPON FOR NEW BUILDERS CATALOG AND PRICES

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Address .....

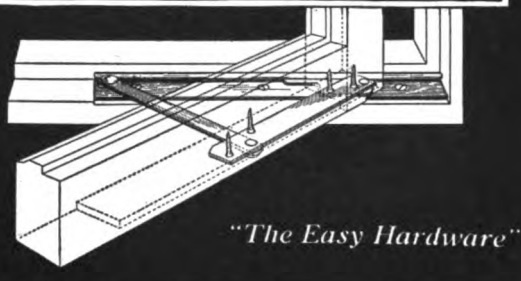
KAB-RANGE

Kitchen Range and Cabinet Combined for Modern Homes and Apartments

BA-10

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CASEMENT WHITCO HARDWARE



"The Easy Hardware"

Whitco Equipped Sash Cannot Sag

Just notice how that part of the Whitco hinge which attaches to the sash extends across the joint between the stile and the rail, reinforcing the joint and binding the two parts of the frame rigidly in position.

Then notice how Whitco supports —not suspends— the sash.

These are two pretty good reasons why a Whitco equipped sash cannot sag.

Whitco is sold by dealers in builders' hardware

VINCENT WHITNEY COMPANY
MANUFACTURERS HARDWARE SPECIALTIES

Eastern Offices:
636-645 Mass. Trust Bldg., Boston

Western Offices:
365 Market Street
San Francisco



"Whitco makes it easy and safe to clean both sides of the casement from within the room"



DICKEY VITRIFIED WALL COPING

Indispensable As Window Glass

Dickey Clay Wall Coping is coming to be as much in evidence on tops of walls as glass is in windows.

Nothing can take its place in durability, economy or good appearance.

Dickey Clay Wall Coping is useful on concrete, brick or stucco walls.

Send for Catalog

W. S. DICKEY CLAY MFG. CO.

Established 1885

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Chicago, Ill.
111 W. Washington St.
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Macon, Ga.
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Products

Store Fronts

Public Garages

Steel Trusses

Steel Columns

Steel Girders

Steel Windows

Skylights

Roof Ventilators

Elevators

Coal Chutes

Sidewalk Lights

Steel Ceilings

INTERNATIONAL STEEL SERVICE

Gets Those "Hang-Fire" Jobs

Every contractor has had jobs "hang-fire" for weeks and months—jobs that ought to be easy to land, yet the prospect holds off.

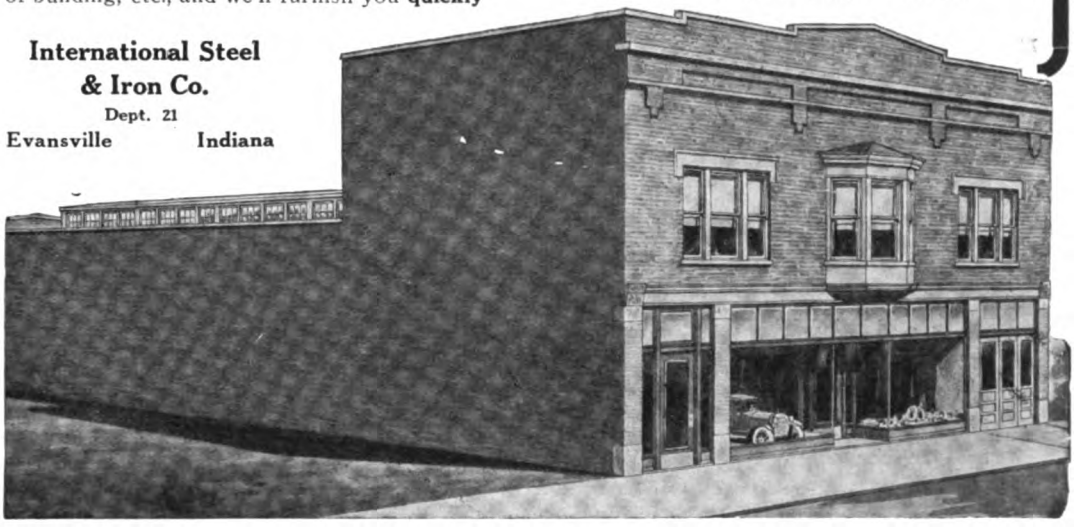
In most cases it is the matter of building design which keeps him from signing the contract. He can't find designs which suit him exactly.

Thousands of contractors have landed jobs of this kind through International Free Building Design Service. When you have a prospect send us dimensions of the lot, type of building, etc., and we'll furnish you **quickly** a complete set of designs, **absolutely without charge.** Our staff of designers is composed of men of long experience who know how and where to cut building costs.

We will also furnish you accurate estimates on the cost of International structural steel and iron products. Other costs you can get from your local supply dealer—and thus equipped you can walk into your prospect's office and come out with the signed contract.

Write for booklet containing over 50 illustrations of International-designed garage buildings.

International Steel & Iron Co.
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PENBERTHY PRODUCTS

What does your customer want



in a cellar drainer? He wants one that will work well, without attention, and he wants it at a reasonable price. Sell him a Penberthy Automatic Cellar Drainer, Improved Model "R"! It will fill the bill.

What *you* want is one that will satisfy your customer, cause you no after trouble, and allow a nice margin. The Penberthy will do it.

Your Jobber can supply you.

PENBERTHY INJECTOR COMPANY

Established 1886
1260 HOLDEN AVENUE, DETROIT, MICHIGAN
CANADIAN PLANT, WINDSOR, ONTARIO

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Greatest Illuminating Achievement in Years!

Light Diffused and Controlled

Shadowless Ceiling Illumination



Designed and made by the inventors of Brascolite

GuthLite gives light that is diffused and controlled! A wonderful new *super-illuminator*. Totally enclosed.

The reflector is adjustable, up or down, controlling the direction of light vertically and horizontally.

Scientifically designed globe extends above reflector, providing shadowless ceiling illumination. Ideal for any kind of ceiling: high or low, beamed, vaulted or plain, light or dark.

Canopy, hanger and ornamental metal band finished in Antique Bronze. Plain and ornamental types. Exceptionally low prices. Write for folder illustrating the various styles.

Prices and Sizes:

Watts	Skt.	Dia. Ref.	Glass Size	Plain Ref. Plain Glass No.	Price	Plain Ref. Dec. Glass No.	Price	Orn. Band Dec. Glass No.	Price	Orn. Band Plain Glass No.	Price
75 to 150	Med.	12¼"	8¼" x 4"	B2820	$5.90	B2823	$6.45	B2826	$8.10	B2829	$7.55
200	Med.	17"	11¼" x 5"	B2821	8.35	B2824	8.90	B2827	11.10	B2830	10.55
300 to 500	Mog.	21"	14¼" x 6"	B2822	11.65	B2825	12.80	B2828	15.60	B2831	14.45

The EDWIN F. GUTH COMPANY
DESIGNERS-ENGINEERS-MANUFACTURERS
Lighting Equipment
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STEEL JOISTS
America's Leaders

YOU can not afford to overlook the construction economies which you can effect with GF Steel Joists. You can build all floors of your building at once without extra equipment and with a minimum amount of field labor. Along with these savings, you obtain strictly modern, fire safe floors—the ideal type for homes and other light occupancy structures.

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THE GENERAL FIREPROOFING BUILDING PRODUCTS
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Branches in all Principal Cities
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GF Steel Joists
for Light Occupancy Buildings

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Expanded Metal
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Steel Sash, Basement and Casement Windows
Lintels
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Youngstown, Ohio

Please send me full information on GF Steel Joists.

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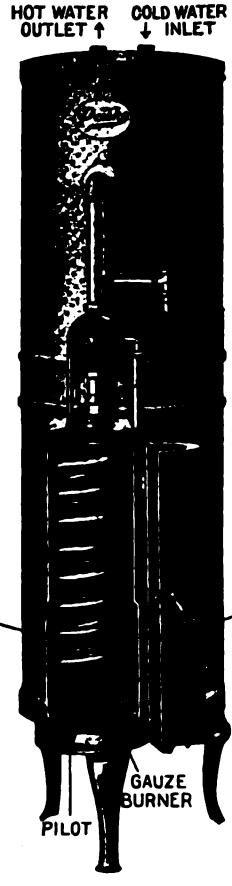
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Automatic Storage System

delivers piping hot water in any quantity at full city pressure from any or all hot water faucets day or night.

Yet it does not burn a single unnessary foot of gas.

The "Klixon" thermostat which regulates the flow of gas turns it on only when the temperature of the water falls below a certain predetermined heat.



The Packo is shipped completely assembled, leaving only three connections to be made by your local plumber.

Riverside Boiler Works, Inc.,
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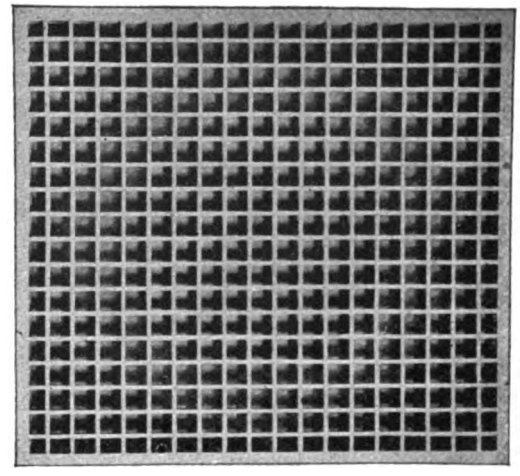
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Firm name

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Low Installation Cost

and



Economy in Coal Consumption

are two big features of the Thatcher warm-air, pipeless heating plant. No radiators, no piping, a one-piece ash-pit and ash-pit bottom, and

ONLY ONE REGISTER

It is easy to show the owner of a small house just why he will get ample, satisfactory heat at an extremely low cost—together with minimum care of operation—when he decides on a

THATCHER PIPELESS FURNACE

The construction is air-tight and gas-proof, assuring a plentiful supply of purified, properly moistened warm air in every room, the saving in coal bills is conservatively estimated at from 30% to 40%, and the furnace burns hard coal, soft coal or wood with equally good results.



Write for printed matter and full information.

The Thatcher Company
Formerly **Thatcher Furnace Co.**
Since 1850

Newark, N. J.—39-41 St. Francis St.
Chicago—341 N. Clark St.
New York—21 W. 44th St.

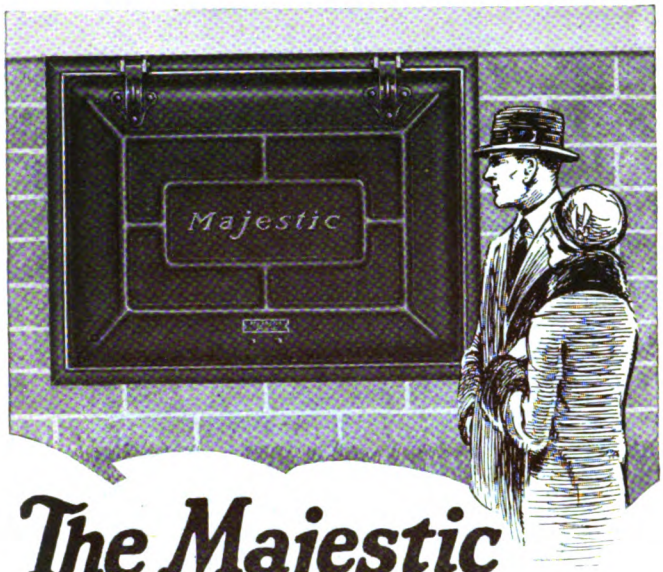
THATCHER
BOILERS-FURNACES-RANGES

THE THATCHER COMPANY, Newark, N. J.
39-41 St. Francis St.,
Gentlemen: Send me information regarding the Thatcher Pipeless Furnace.

Name.....

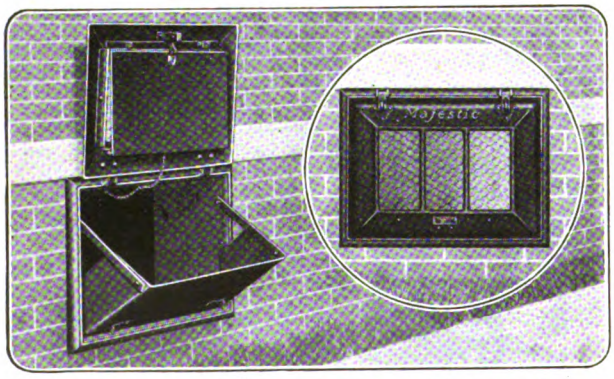
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The Majestic Says "Good Value"

A MAJESTIC Coal Window in a home says "Good Value" to everyone who sees it—because the Majestic is recognized as the leading coal window value. More Majestics are installed each year than all other coal windows combined, because the Majestic is break-proof and rust-proof —with Certified Malleable Iron frame and hinges, electro-galvanized pressed steel door and Keystone Copper Steel body and hopper. You give your clients "Good Value" which they cannot help but appreciate, when you use the Majestic.



This is the No. M10 Majestic open and closed—one of several new and improved styles. All are shown in our new catalog, together with many other Majestic products you ought to use in the homes you build. Write for our new catalog and prices.

THE MAJESTIC CO. - Huntington, Ind.

Majestic Coal Window

The Mark of a Modern Home

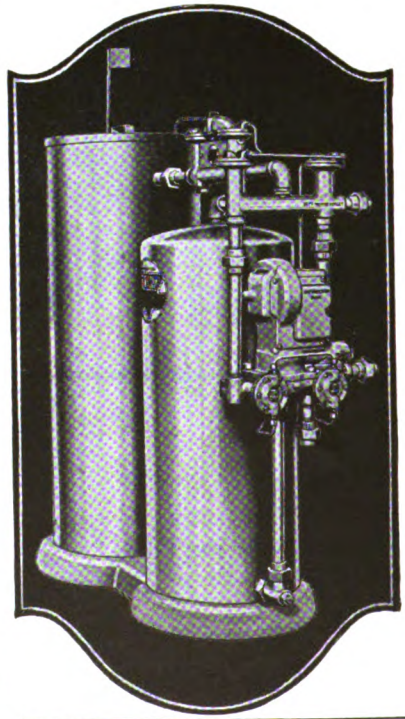


Softened Water FACTS for "Show Me" Builders

Your clients will be delighted with the happy results from using pure, clean DURO Softened Water.

They will appreciate instantly the amazing difference between the DURO Automatic Water Softener and the old hard water supply, the cistern with its uncertain supply of filthy rain water and the obsolete hand operated water softeners.

DURO Automatic Water Softener



You can install the DURO Automatic Softener in far less time and at much less cost than the disease-breeding cistern with its costly double plumbing.

Easily connected to city water line in basement. Operates automatically without attention, regenerating itself.

Send for catalog

THE DURO COMPANY

210 Monument Ave.
Dayton, Ohio

Duro Guarantees Satisfactory Water Service

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Only the best flooring *would be used in such a house*

UP in the northwest, lumber is one of the leading industries. Yet when John P. Weyerhaeuser's new $165,000 residence was built in Tacoma, Wash., the flooring was ordered from Arkansas.

Meade & Hamilton, the architects, and Cornell Bros., the contractors, agreed that only "Perfection" Brand Oak Flooring would be used throughout this palatial residence.

From experience they knew the inherent quality of "Perfection." How finely it is milled, how honestly graded and how carefully inspected.

As you see it today, the rich natural pattern has a beautiful lustre. The texture is such that generations from now this same floor will retain its original beauty. Yet "Perfection" costs no more than a number of other brands.

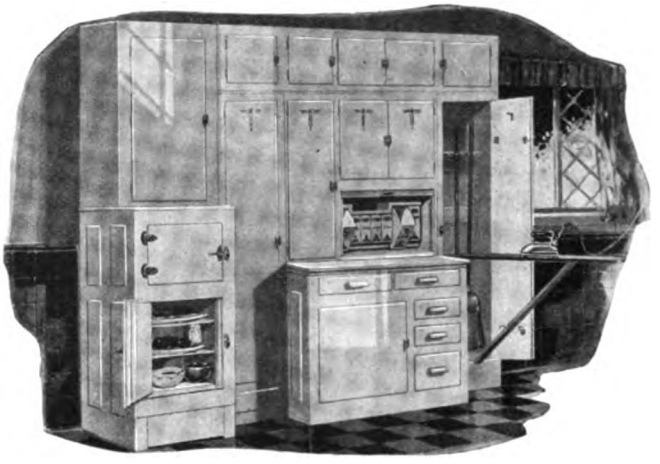
There's a size and grade of "Perfection" Brand Oak Flooring for every type of structure, new or old. For full information write today.

Arkansas Oak Flooring Company
Pine Bluff, Ark.

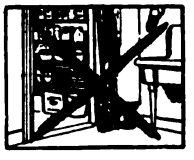
Specify "PERFECTION" Brand Oak Flooring

"PERFECTION"
Brand Oak Flooring

KITCHEN MAID
STANDARD KITCHEN UNITS



These units replace the pantry . . . completely!



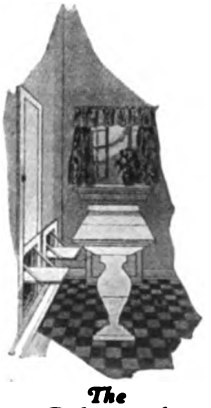
Never has the completeness of the Kitchen Maid line meant more to builders than today. With the latest trends eliminating the pantry, these units have become the simple, efficient, logical solution of the modern kitchen equipment problem.

Kitchen Maid Units include everything from kitchen cabinet to Pulmanook; from refrigerator to broom and dish closets; from folding ironing board to linen cupboards. Each unit is complete in itself; it can be used alone or in combination with any other units.

Beautiful in design, substantial in construction, built with sanitary rounded inside corners and smooth panel doors—these units are an instant attraction to every woman.

Fine as they are, Kitchen Maid Units cost no more installed than old-fashioned cupboards. You will profit, in money and good will, by installing them in your kitchens. Mail coupon for catalogue, dimensional drawings and special prices.

WASMUTH-ENDICOTT COMPANY
1510 Snowden Street, Andrews, Indiana



The Pulmanook
Consists of table and two or four chairs. Folds easily and quickly into wall

"Let the Kitchen Maid Be Your Kitchen Aid"
KITCHEN MAID
STANDARD UNIT SYSTEMS

WASMUTH-ENDICOTT CO.
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If in Canada, Address Branch Office, Waterloo, Ont.
Please send catalogue and full information about Kitchen Maid Units to:
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Address .....
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State .....

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ARKANSAS SOFT PINE

Satin-Like Interior Trim



For SNUG MITRES *For* TIGHT JOINTS
For EXACTING CLIENTS

...The Camera Says "*It Does Not Split*"...
The Carpenter Says "*It Cuts Clean*"...The
Cabinetworker Says "*It Is Workable*"...
The Customer Says "*It Is Perfect Woodwork*"
...The Architect Says "*It Gives My Clients Perfect Woodwork at Moderate Cost*"

Arkansas Soft Pine is a super-fine quality of close grained, fine textured wood. Virtually free from rosin, it absorbs stains and enamels with exact uniformity. Its elastic, tough fibre and absence of hard streaks are insurance against raised grain and guarantee a finished surface of permanent, velvet-smoothness. Arkansas Soft Pine is scientifically dried in modern moist air kilns. It is free from cupping, warping and twisting tendencies, and "stays put." It saves labor costs, being readily workable, and responds to edged tools in a way that commands the preference of cabinetworkers.

May we submit convincing evidence in the form of natural and finished samples, technical literature? Write now!

Arkansas Soft Pine is trademarked, grademarked and sold by dealers and planing mills east of the Rockies.

ARKANSAS SOFT PINE BUREAU

1093 Boyle Building, Little Rock, Ark.

MISSISSIPPI-WIRE-GLASS-CO.
WG
FIRE RETARDANT No. 52



STANDARD OIL BUILDING
San Francisco
Geo. W. Kelham, Architect

Mississippi Wire Glass Co.
220 FIFTH AVENUE, NEW YORK
Chicago St. Louis

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Even Homesteads at Times Must Show Their Worth in Dollars and Cents!

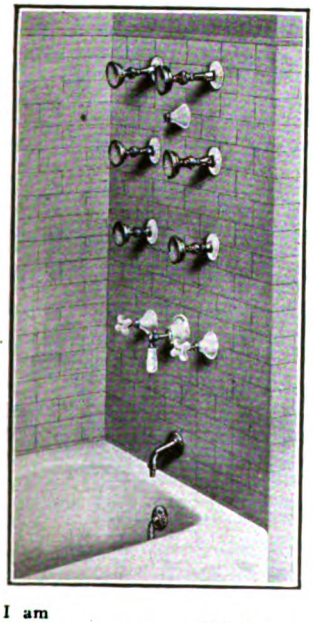
Every building today is planned with the thought of market value, but—

How Much?

It all depends—equipment, for instance, plays a mighty important part. Who today would buy or rent a house, or apartment, without modern bathing facilities? The bathroom is of prime importance, and showers are taken for granted. Ordinary showers nowadays, however, have too little influence. Body showers, which make bathing as delightful for women and children as for men, have greater influence. Feminine appeal is important to all builders.

Those who investigate, install Kenney Body Showers. They're handsome fixtures, and *proven* in their practicability and efficiency. Kenney Body Showers influence rental and sales values.

Congress Concealed Model Transfer valve with overrim tub filler.



May we send you a catalog?

The Kenney Cutting Products Corp.

The Kenney-Cutting Products Corp.,
507 5th Ave., N. Y., Dept. BA

Please send me information on KENNEY BODY NEEDLE SHOWERS for

☐ **Residence** ☐ **Hotel**
☐ **Apartments**
☐ **Club or Institution**

I am
☐ Home Builder
☐ Builder
☐ Architect

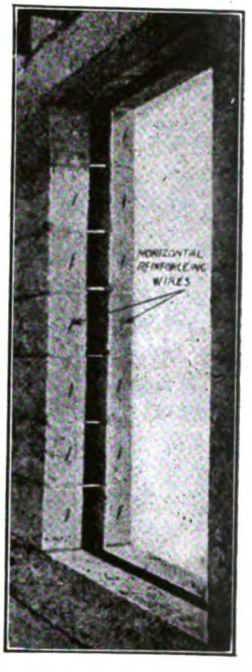
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Development by Hays, Morris Co., Niagara Falls, N. Y.

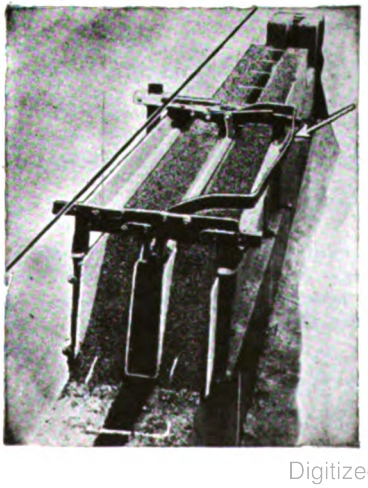
Sell Insulation

PROSPECTIVE home owners are now educated to the necessity of insulation. Profit by this fact; show the buyer that the Wallbuilder *builds in* the finest insulation known —continuous, dead air space, 2½ in. wide. Explain that Van Guilder homes burn 20% less coal. A Wallbuilder job — heatproof, coldproof, dampproof and fireproof— provides all these sales features. Your profits lie in quick turnover and in low construction costs. Consider these economies: Your regular men operate the Wallbuilder and all expense of furring, lathing and scratch coat plaster is eliminated.



DEALERS: Many Choice Territories Are Still Open. Write

Van Guilder System Concrete Bldg., Inc.
15 East 40th Street **New York City**



Tell me what the VAN GUILDER WALLBUILDER can do for me. Local costs are—Cement.....per bbl.

Sand.....per cu. yd.

Aggregate....per cu. yd.

Labor.....per hr.

Name .....

.....

My business is.....

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Address .....

.....10BA

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5 Machines In One

Meets Your Every Requirement

In Woodworking Machinery

You may want a machine capable of a variety of jobs or one that merely does two or three. You may want a machine requiring small floor space and economical in operation or you may prefer speed and accuracy above everything. But no matter what you want the Famous Jr. 30 will meet that want and save you money.

It embodies five machines in one—band saw, saw bench, shaper, jointer and boring machine. With attachments will do over thirty operations. Five men can work on it at one time or any unit can be operated separately. Requires no skilled labor and is simply and easily adjusted. Occupies only 48 feet of floor space, has but one motor. No idlers, cross belts or short belts to waste power.

FAMOUS

Junior "30" Woodworker

The ideal machine for contractors, lumber dealers, planing mills, auto factories, woodworking shops and furniture factories. Thousands are in use and we've never heard of one wearing out.

Get the benefit of its time and labor saving economy. Send for illustrated literature on this remarkable machine today—Now! Address Dept. 310.

The Sidney Machine Tool Co.
Sidney, Ohio

Pick up $5.00 Bills from the floors of Your Town



Make $30 to $50 a Day

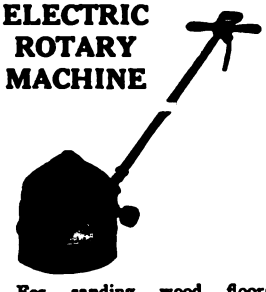
with the FREE-O-DUST Super Surfacer

Does the proposition sound good to you? Reliable contractors everywhere are combining competent workmanship with dependable equipment to increase their profits. No special training or experience is necessary. Many contractors are going into floor surfacing exclusively, as the demand is great for finishing both new and old floors.

The Free-O-Dust sands right up to the baseboard—no side drum is necessary. A side drum is not practical anyway, and over 90% of the contractors using machines equipped with side drums never use them. Verify this statement among your own acquaintances.

The silent high speed chain eliminates vibration and prevents loss of power. All the dust is picked up on the forward movement and the air kept free of dust at all times. Clip the coupon today and mail it for complete information. There is absolutely no obligation.

ELECTRIC ROTARY MACHINE



For sanding wood floors where an exceptionally high finish is required—also for surfacing and polishing marble, terrazzo, etc.; waxing, polishing and scrubbing. A different attachment for each operation.

MAIL

ELECTRIC ROTARY MACHINE CO.,
3633 W. Lake St., Chicago, U. S. A.

- ☐ Please send me booklet, "A Day's Work," giving full information about the FREE-O-DUST Super Surfacer.
- ☐ Please send me General Booklet giving full information about the Electric Rotary Machine.
- ☐ As a contractor, I am interested in making more money.
- ☐ I am interested in going into the floor sanding business.

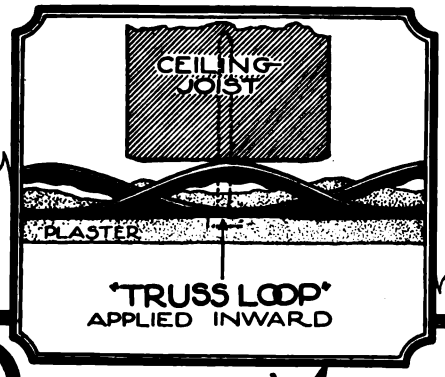
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ADDRESS.....

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ELECTRIC ROTARY MACHINE COMPANY
3633 W. Lake St. Chicago, Illinois
Branch Office — New York City

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Questions & Answers about METAL LATH—

[No. 6 of a Series]

What is the most satisfactory lath to use with wood construction?

Bostwick "Truss-Loop" Metal Lath has enjoyed a wide preference in this type of work for thirty-six years.

What are its principal advantages?

Its stiffness makes it easier to handle, easier to apply, easier to plaster. Supports may be spaced more widely and the required overlap is only the width of a ¼" nesting rib.

What advantages apply especially to frame construction?

It is easier to nail and the raised "truss-loops" form an adequate key where the lath passed over joist, stud or other broad faced support.

Should Bostwick "Truss-Loop" Lath be applied with loops inward or outward?

This depends on the plastering specification. If it is to be a full ¾" grounds, it is best to turn the loops outward, as the loops grip the plaster better in this position.

When should loops be turned inward?

If plastering economy is a primary object, Bostwick "Truss-Loop" Lath with loops inward gives a quality job with plaster of less than standard grounds. No other lath can be plastered so economically when quality is considered.

What other jobs call for loops inward?

Any self-furring operation, such as stucco work, or application over a defective ceiling for replastering.

Bostwick "Truss-Loop" Metal Lath is the leading product in the complete Bostwick Line, which includes expanded lath, crimped lath, stucco mesh, corner bead, cornerite, base bead, picture molding, channels and every metal lath accessory. Bostwick Dealers in every principal center are sure sources of lath satisfaction.

THE BOSTWICK STEEL LATH CO
NILES, OHIO



Member of National Council for Better Plastering

Bostwick
TRUSS-LOOP
METAL LATH



Here's the Last Word

in Coal Chute Construction—The

New, Improved "Kewanee"

The wise builder of today will be impressed when he studies the photograph shown above of the new, improved Kewanee Plain-Door Chute.

He will appreciate the new, attractive pressed steel door, and the new, rugged pressed steel hinges—improvements which make Kewanee Chutes the last word in coal chute construction.

He will read this announcement and mail the coupon below for complete information—before he forgets.

Kewanee "Copper-Steel" Non-Breakable Coal Chutes are provided in various sizes to meet the requirements of the building, but always of rugged "Keystone Copper Steel"—a special alloy which is not only rust-resisting but tougher than ordinary steel.

Yet these superior chutes, guaranteed against breakage, cost but little if any more than brittle cast-iron chutes or steel chutes of light, flimsy construction.

Dealers—Write for Agency Proposition and Liberal Discounts

KEWANEE MFG. CO., 1005 Tremont St., Kewanee, Ill.

Mail This Coupon for

THE NEW KEWANEE CATALOG

Kewanee Manufacturing Company
1005 Tremont St., Kewanee, Ill.

Please send me full information regarding Kewanee Coal Chutes.

I am a
☐ Contractor
☐ Property Owner
☐ Architect
☐ Dealer

Name .....

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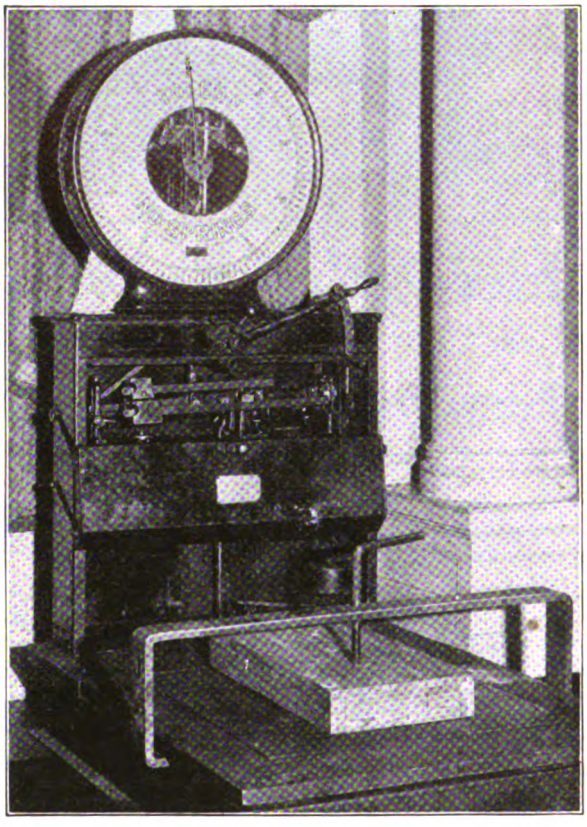
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Severe Strength Test Again Proves Superiority of

RIFT FLOORING

End-Matched Dixie Rift Flooring



Flat Grain Short Stock, laid without sub-floor, stands up under more than 1000 pounds pressure

This striking demonstration of the extreme strength of End-Matching was conducted on a Toledo Automatic Scale. The test illustrated, consisted of nesting a short piece of *End-Matched flat grain* stock in a flooring panel of regular construction, on 16″ centers. *The piece itself had no direct support from the joist.* It broke at 1,065 pounds.

Here's convincing evidence that "Dixie Rift" short length End-Matched flooring has more than adequate strength for all ordinary stresses to be met in residential, apartment, school, church and store construction, etc.

***It is* Practical · Economical · Better**

Ask your dealer for Dixie Rift Flooring. He will be glad to show you the stock and quote prices. Write for handsome illustrated free booklet.

Dixie Rift Flooring is sold exclusively through lumber dealers

JACKSON LUMBER COMPANY

Manufacturers

LOCKHART · ALABAMA

Amherst Incinerators

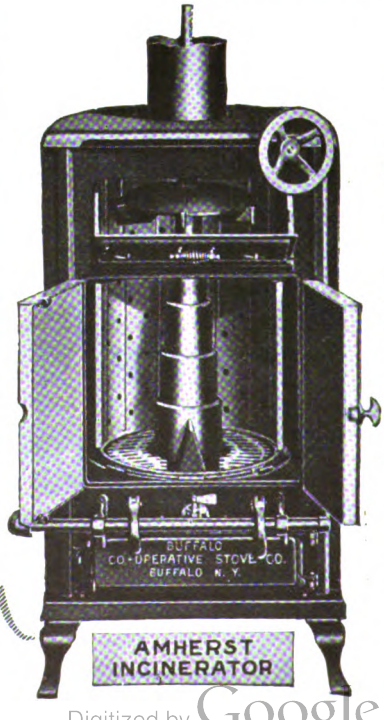
~a modern home necessity!

Has it modern conveniences? That's the first question a home buyer asks. Show them an Amherst Incinerator and you've gone a long way towards closing the sale.

Installed in kitchen, basement or garage, it means convenient disposal of all refuse. Simply turn on the gas when the Incinerator is full. Without heat or odor all garbage is quickly reduced to a fine sterilized ash. Burns from the top down. Costs but a few cents a week. Eliminates the danger of vermin and disease about the home. Prices and information upon request.

BUFFALO CO-OPERATIVE STOVE COMPANY

BUFFALO, N. Y.

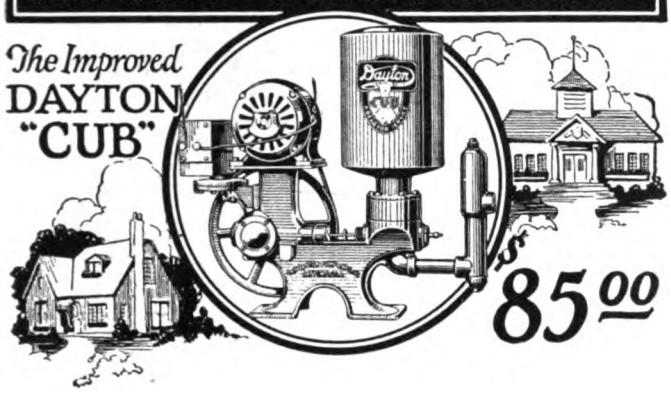


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PRIVATE WATER SYSTEMS



ARE YOU CONCERNED ABOUT WATER SYSTEMS

THE builder of suburban homes—of summer cottages—of resort hotels—and rural schools is frequently concerned about water systems. He must buy the best system obtainable. Yet he must stay within a fixed appropriation. He must install a pump that gives years of trouble-free, efficient service. And each dollar of the purchase price must represent rock-bottom value.

DAYTON Pumps and Water Systems are especially built for this man—the one who demands value. Quality built in every part, designed by engineers who have pioneered in the private water system field, DAYTON Pumps deliver an abundant supply of running water. Noiseless and automatic in operation, their unfailing dependability will be a source of satisfaction throughout a lifetime of service.

DAYTON builds a complete line with capacity and price ranges to fit every requirement, and the well-informed contractor and builder keeps a DAYTON catalog ready at hand. Why not send for yours—NOW?

THE DAYTON PUMP & MFG. CO.
DAYTON, OHIO, U. S. A.



We have put all data on DAYTON Water Systems into our booklet, "Dependable Water Service," which also contains most interesting and practical information for both builders and architects. Your copy is ready for you—free. Just give this

MEMO TO YOUR STENOGRAPHER

Miss ..... Please attach the coupon below to our letter head and mail today.

"Dayton" Pumps
Make the water do the running

Please send at once my copy of "Dependable Water Service."

Firm Name .....

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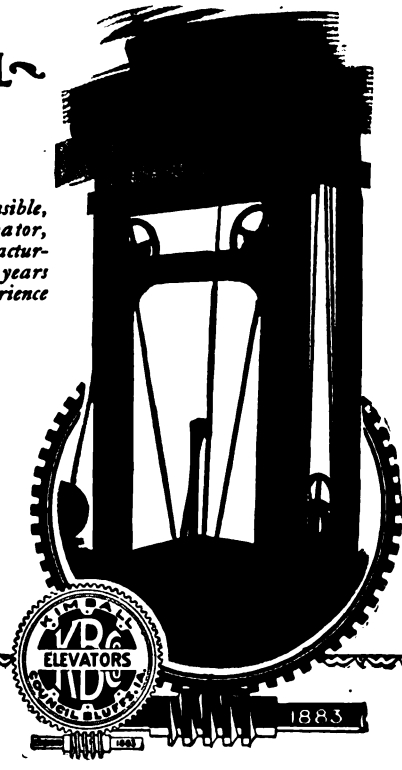
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KIMBALL

An inexpensive, sensible, safe electric elevator, made by a manufacturing concern with 43 years of satisfactory experience to guide them.



LIGHT ELECTRIC ELEVATORS

These Elevators are quickly and easily installed in your building. They are easy to operate and give as fine a service as elevators costing many times as much.

They are built in several capacities, ranging from 1,000 to 3,000 lbs. Each elevator is built for the task it must perform and is fully guaranteed to serve in an efficient manner.

A moderate priced, sturdy, well designed elevator built in all sizes and capacities. An outfit truly worthy of the name "Kimball" it bears.

Especially adaptable for retail stores, bakeries, creameries, mortuaries, hospitals, factories or wherever safe, light, fast, inexpensive elevator service is demanded.

Prompt shipment, quick installation, meeting all state and insurance safety requirements, and guaranteed satisfaction is Kimball Light Electric Service.

There is a Kimball Elevator built for every requirement

KIMBALL BROS. CO.
COUNCIL BLUFFS IOWA

1106-22 Ninth St. **Council Bluffs, Iowa**

KANSAS CITY
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SOUTH BEND
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and you'll say

"Gimme a Cheney too"

Just two swings will show you quick enough why the Cheney Ripping Hammer puts it all over the rest of 'em.

Quick as you pick up a Cheney Hammer you'll notice its perfect "hang"; two good swings with it will make you realize that you've got hold of a handle that fits your hand; yanking out a couple of nails will show you that with a Cheney, pulling 'em is as easy as driving 'em—and one day's work will convince you that a Cheney will give years and years of service.

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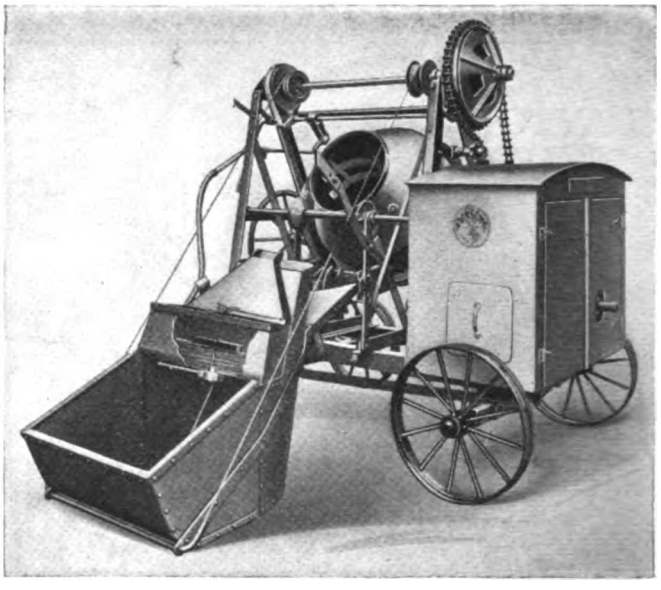
PRENTISS VISES

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106 - 110 LAFAYETTE ST. NEW YORK CITY

VISE CO.

CHENEY HAMMERS



and now it's a 5-S with the water-tank in the Power Loader



Get that—

A 5-S Tilter with a really automatic Power Loader Unit Water Tank. Just hook up a hose line to the nearest tap, set the control valve in the tank for the desired amount of water per batch, turn on the water—*and forget it!* Each batch will get just the right amount of water at just the right instant for a quick, thorough mix.

The drum has semi-automatic control, returning to the charging position when the hand wheel is released. Let go of the wheel and forget it. The drum itself is of different and improved design.

Then there are Timken Roller Bearings (2) in the drum pivot shaft or spindle—which means you can forget greasing and bearing troubles, too.

Send for Bulletin No. 117-A of this decidedly different—and better—5-S Mixer.

Ransome Concrete Machinery Co.

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Let us tell you how the American Universal electrically driven floor surfacing machine will save you the wages of 6 men on your floor work.

The American Floor Surfacing Machine Co.

Originators of Floor Sanding Machines

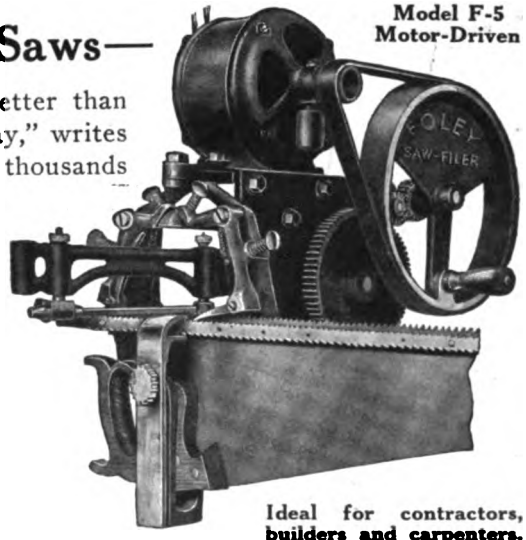
514 South Saint Clair Street **Toledo, Ohio**

"I Never Had Better Filed Saws—

In my 20 years of carpentry, in fact, they cut better than new saws. The Foley Filer is perfect in every way," writes T. Hafner, Box 149, Westmont, Ill. He is one of the thousands who are saving money by filing their saws *automatically* with the

FOLEY AUTOMATIC SAW FILER

Model F-5 Motor-Driven



Ideal for contractors, builders and carpenters. Also hand-drive model.

The Only Machine That Files ALL Your Saws

Handles hand, band, back, panel, and circular—band saws ¼" to 4½" wide—circular saws 4" to 16" diameter—3 to 16 points to the inch. Also re-tooths old saws. Six times as fast as hand filing. Quickly pays for itself in valuable time saved, and better, faster work done when men *always* have true, easy cutting saws. Makes it easy to keep saws in perfect condition.

Gives a Perfect Cutting Edge

Better than expert hand filers can do. Every tooth filed uniformly accurate. Saws last longer and stay "like new." Carpenters, contractors, woodworkers everywhere are saving time and money with the Foley. *Thousands in use.* Let it increase *your* profits. Mail the coupon now.

FOLEY SAW TOOL CO.,
159 Foley Bldg., 916 E. Lake Street,
Minneapolis, Minnesota.

Please send me complete description of the Foley Saw Filer.

Name .....

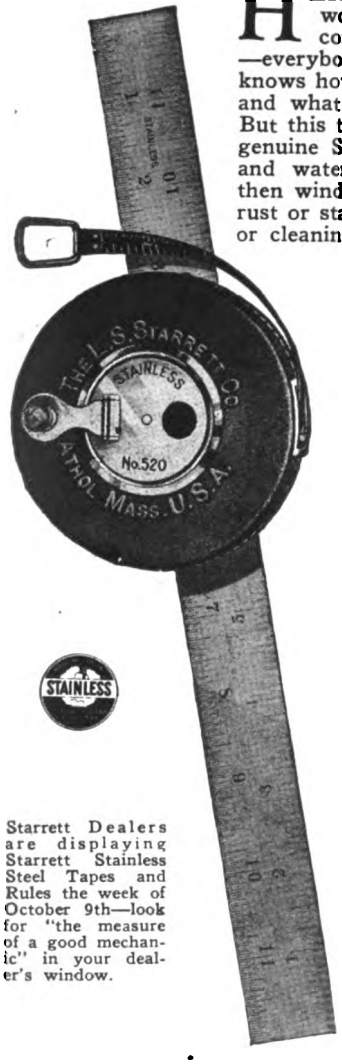
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At last a STEEL TAPE that is genuine STAINLESS STEEL

The measure of a good mechanic — wherever good tools are used.





HERE, at last, is a steel tape that won't rust. Carpenters, builders, contractors, surveyors, mechanics —everybody who has used steel tapes knows how often they have to be scoured and what scouring does to a tape. But this tape *can't* rust—it's made from genuine Stainless Steel. Use it in mud and water as much as you like—and then wind it up and forget it. It won't rust or stain, it will never need scouring or cleaning and the graduations will be as sharp and distinct after years of use as when the tape was new.

Made in 50, 75 and 100 ft. lengths of genuine Stainless Steel; graduated in feet, inches and eighths of an inch or in feet, tenths and hundredths of a foot. Quick reading figures —the foot mark is shown in a different sized figure before each inch mark. Has leather case and push button handle. Ask your hardware dealer for Starrett Stainless Steel Tape No. 520.

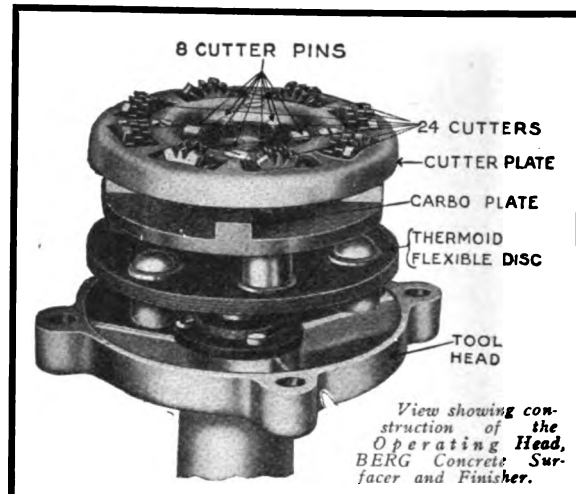
If you're interested in fine tools, write for a free copy of the 352 page Starrett Catalog No. 23 "P."

The L. S. Starrett Co.,
Athol, Mass.
World's Greatest Tool Makers
Steel Tapes—Standard for Accuracy

Starrett Dealers are displaying Starrett Stainless Steel Tapes and Rules the week of October 9th—look for "the measure of a good mechanic" in your dealer's window.

Starrett
STAINLESS STEEL
Tapes and Rules

Genuine Stainless Steel is manufactured only under the patents of the
AMERICAN STAINLESS STEEL COMPANY
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View showing construction of the Operating Head, BERG Concrete Surfacer and Finisher.

For Quicker and Better Concrete Surfacing and Finishing

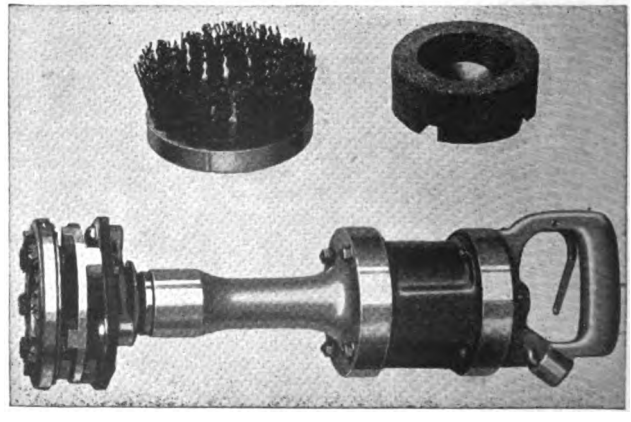
BERG
CONCRETE SURFACER AND FINISHER

The BERG is unequalled for removing fins, board or form marks, and all surface irregularities from concrete. Saves time and labor. Light weight, portable, easily handled. Used on some of the country's biggest concrete jobs—interior and exterior work. Endorsed by leading architects, contractors, engineers. Made in electric-driven and air-driven models.

Descriptive literature mailed upon request. Write for it today!

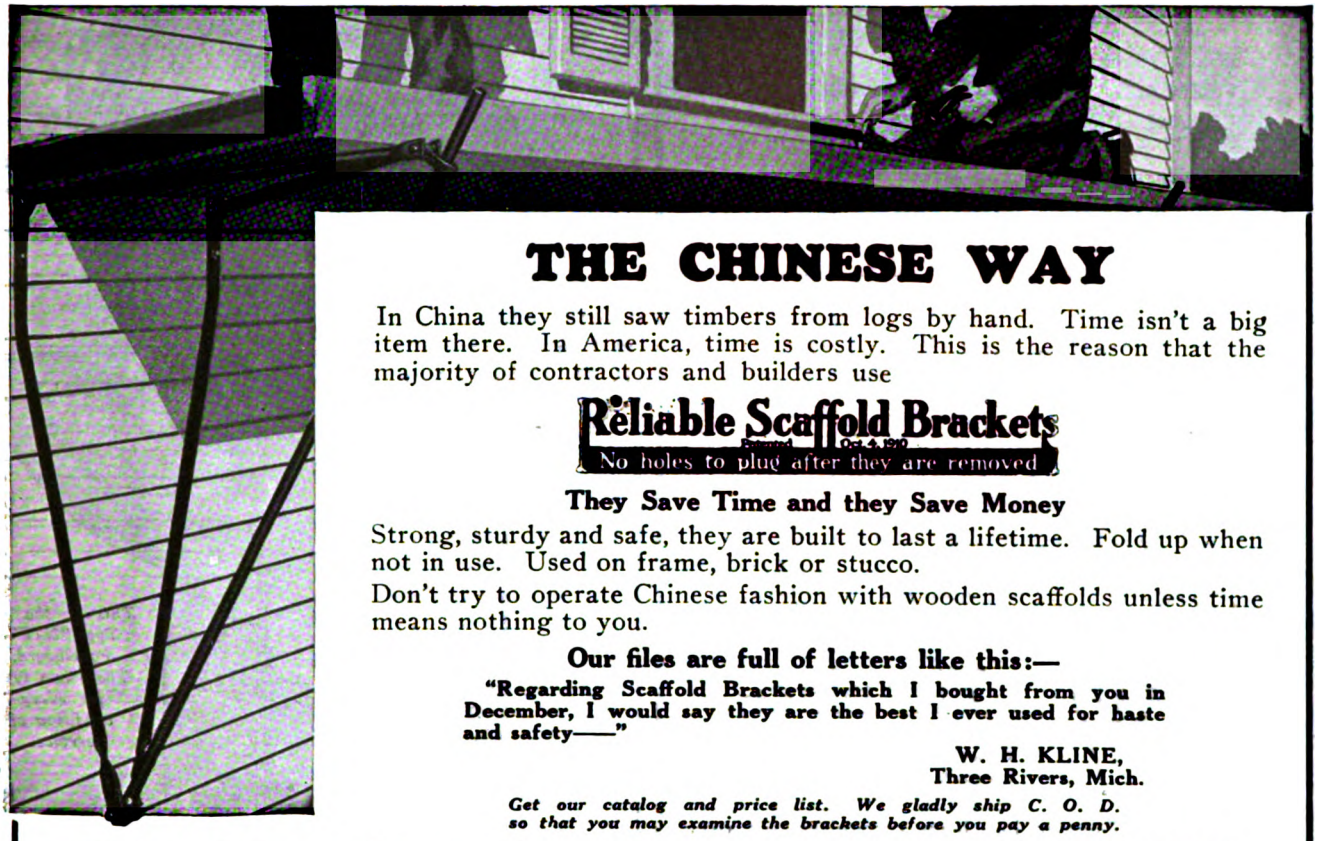
Equipped with Full-Floating, Flexible Head for Cutter and Carbo-Discs. Self-conforming to any surface.

THE CONCRETE SURFACING MACHINERY CO.
4660 Spring Grove Ave. Dept. J Cincinnati, Ohio



BERG Portable Air-Driven Concrete Surfacer and Finisher. Carbo Disc and Steel Brush are supplied as regular equipment.

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THE CHINESE WAY

In China they still saw timbers from logs by hand. Time isn't a big item there. In America, time is costly. This is the reason that the majority of contractors and builders use

Reliable Scaffold Brackets
Patented Oct. 4 1910
No holes to plug after they are removed

They Save Time and they Save Money

Strong, sturdy and safe, they are built to last a lifetime. Fold up when not in use. Used on frame, brick or stucco.

Don't try to operate Chinese fashion with wooden scaffolds unless time means nothing to you.

Our files are full of letters like this:—

"Regarding Scaffold Brackets which I bought from you in December, I would say they are the best I ever used for haste and safety——"

W. H. KLINE,
Three Rivers, Mich.

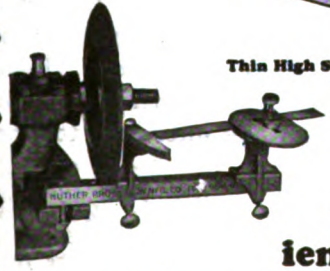
Get our catalog and price list. We gladly ship C. O. D. so that you may examine the brackets before you pay a penny.

Elite Manufacturing Company, Ashland, Ohio

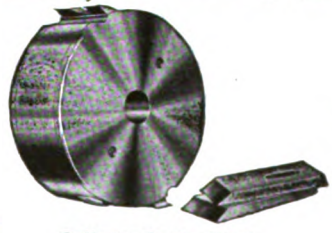
There's more profit in a HUTHER SAW



Thin High Speed Steel Knives



Grinding Attachment



Cylinder Cutter Head



Cutter Head

Backed by fifty years experience in the making of highest grade saws, each Huther Saw has a quality built into it that insures maximum length of service.



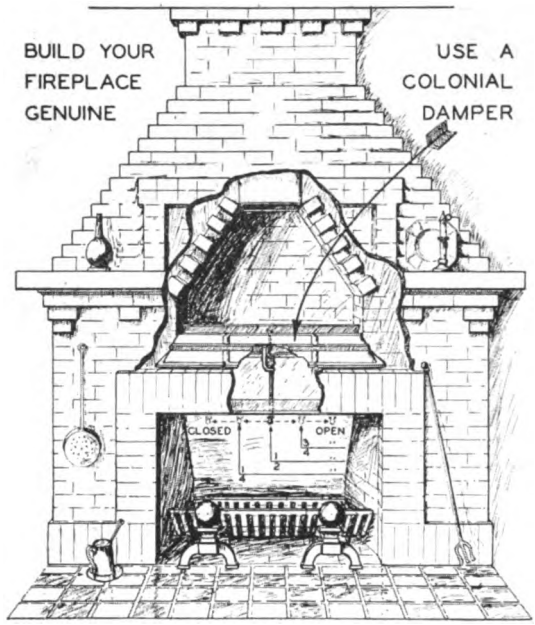
Circular Mitre Saw with Cleaner Tooth



Dado Head

Huther Bros. Saw Mfg. Co.
ROCHESTER, N. Y.
Makers of Better Saws for More Than Fifty Years

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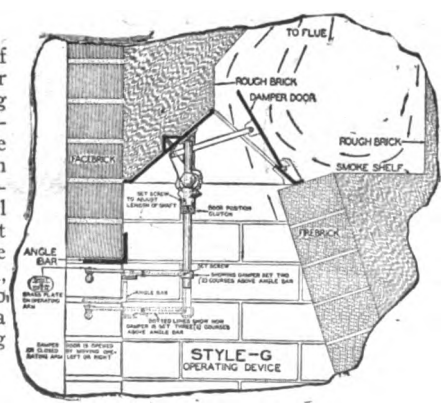


new/ Fireplace Satisfaction

The Colonial Damper has been recognized for over twenty years as a product unrivaled for its purpose. Now, with the new Style G operating device (patent applied for) you have at last a fireplace damper that works right in any position in any fireplace. It can be set one, two or three courses above the fireplace opening or even higher with a longer rod.

The best practice amongst architects and builders is to set the fireplace damper high up in the throat as this gives by far the best results. The Colonial Damper makes it possible to do this. Gives perfect draft control under all weather conditions. Meets every conceivable condition in fireplace design and construction. No key to mar the fireplace front—easy to install—easy to operate.

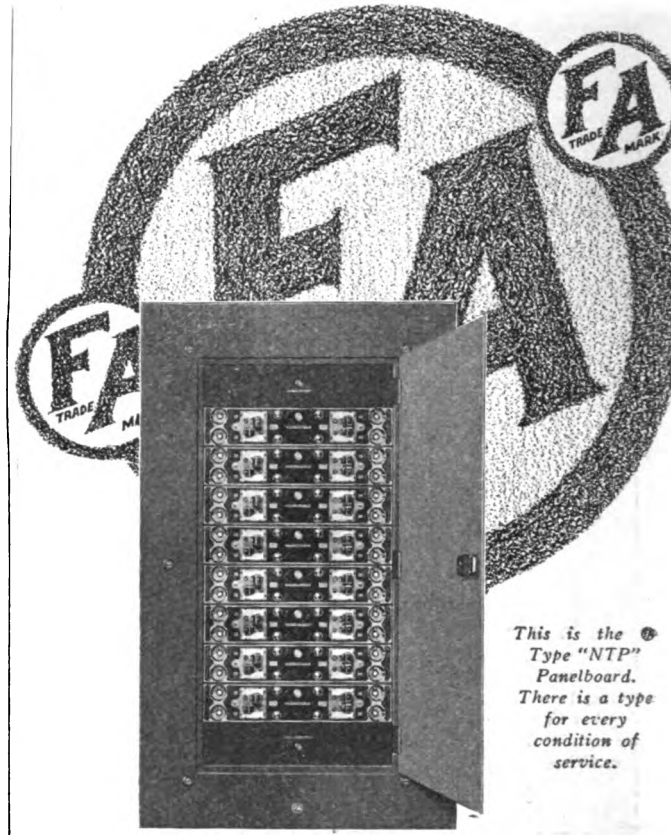
Sectional view of Colonial Damper Style G showing method of operation and possible adjustment. With this operating device the Colonial Head may be set as high up in the throat as desired, the position so necessary to a proper working fireplace.



Blue Print on Style G Colonial Head, Throat and Damper, with new operating device, showing common mistakes in fireplace construction, sent free on request.

COLONIAL FIREPLACE CO.
4618 ROOSEVELT ROAD CHICAGO, ILL.

Colonial Head-Throat and Damper



This is the FA Type "NTP" Panelboard. There is a type for every condition of service.

Built of Oversize Parts To Give Oversize Service

You have never heard of a "come back" or complaint on FA Panelboards, have you? The reason is we build them to stand up under more than ordinary abuse and serve the longest. They are standardized throughout and designed to require a minimum of installation work. In other words, FA Panelboards are made to be profitable to you from every angle. Ordinarily you would not expect such a high grade product to also cost less. However, FA Panelboards do! You should be interested to learn more.



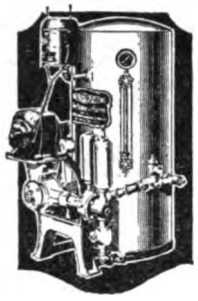
Send for the FA Catalog. It gives full details, prices, types, etc. We mail it postpaid—free! Ask for estimates. They are free, also.

Frank Adam
ELECTRIC COMPANY
ST. LOUIS
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Paul Private Water Systems
Soft Water Generators



Homes that are Paul equipped sell easier. Paul Private Water Systems are dependable, automatic, silent, foolproof. Paul Soft Water Generators are compact, with high capacity, honest ratings, and the upward flow, double-wash principle.

Dependable always.

The Fort Wayne Engineering & Mfg. Co.
1715 N. Harrison St. Fort Wayne, Ind.

ORIGINAL MAILO-BOX

THE MODERN BUILT IN MAIL BOX

Patented October 4, 1921; July 1, 1922; May 4, 1926
U. S. A. and Canada



BEWARE OF IMITATIONS

SOLD AND CARRIED IN STOCK BY WHOLESALE AND RETAIL HARDWARE, LUMBER AND BUILDERS' SUPPLY DEALERS THROUGHOUT THE UNITED STATES.

PENN-GREG MANUFACTURING CO.,
809-11 University Avenue, St. Paul, Minn.

Gentlemen: Please send me full information regarding the MAILO-BOX.

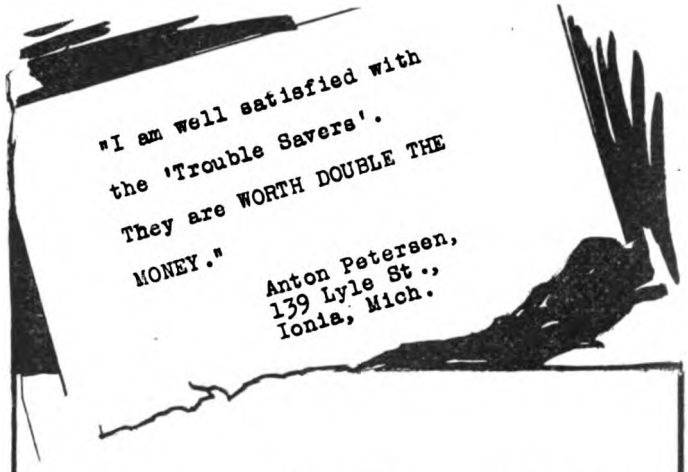
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☐ Dealer ☐ Contractor ☐ Prospective Home Owner
☐ Architect ☐ Builder ☐ Realtor



"Worth Double the Money"

TROUBLE SAVER Brackets are worth double their money in time-saving alone. You can put up a set of TROUBLE SAVER Steel Brackets in the time required to walk around the building. This saving in time in most cases is enough to pay for the TROUBLE SAVERS on the first job—after that the money they save is clear profit for you.

At the close of every job you must tear down your wooden scaffolding and rebuild it completely for the next job. With TROUBLE SAVER Brackets all you do is unhook them from the studding—*and they're down.* To erect them—hook them on the studding and lay the planking across. The average life of TROUBLE SAVER Brackets is well over ten years—which means that you aren't forced to buy a complete new stock of scaffolding lumber several times a season.

Being made of steel TROUBLE SAVER Brackets are many times stronger and safer than wooden scaffolding. Fold up for storage and can be stored in any out-of-the-way corner.

Mail the attached coupon for prices, complete information and details of our 30-day trial offer.



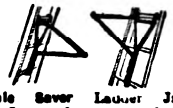
Trouble Saver Adjustable Trestles are furnished in six different sizes that give a range in height by 3 inch lifts from 16 inches to 10 ft. Can be set up and adjusted to the exact height desired in a few seconds.



Trouble Saver Carpenter Bracket. Hooks around the studding and stands firmly on two legs. Will support a ton weight. Far superior to any other method of supporting scaffolding on small buildings.



Trouble Saver Stucco Bracket is quickly attached with four nails. Stands firmly on two legs.



Trouble Saver Ladder Jack. Gives firm, safe support whether adjusted above or below the ladder. Rests on three rungs.



Trouble Saver Asphalt Shingler for composition shingles.

Trouble Saver "Snapping Turtle" Shingler for wooden shingles.

We also make **Trouble Saver Sectional Steel Scaffolding** for use on high buildings.

The Steel Scaffolding Co.
Evansville, Indiana

THE STEEL SCAFFOLDING CO.,
Evansville, Indiana.
Please send me prices and full information on TROUBLE SAVER Steel Scaffolding—also details of your 30-day trial offer.

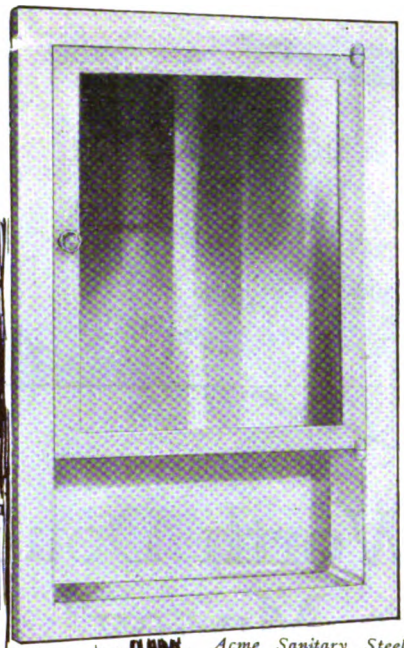
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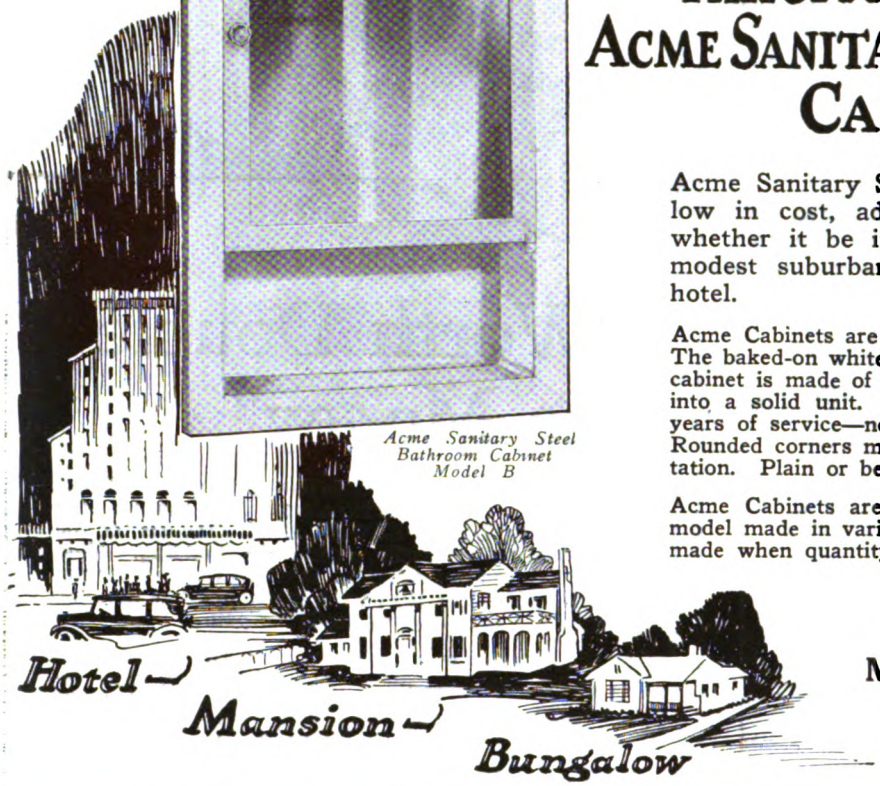
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Acme Sanitary Steel
Bathroom Cabinet
Model B



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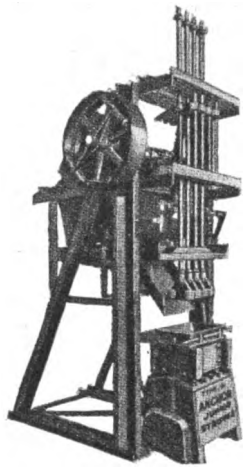
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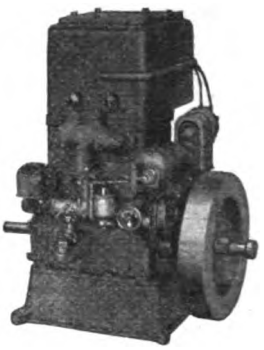
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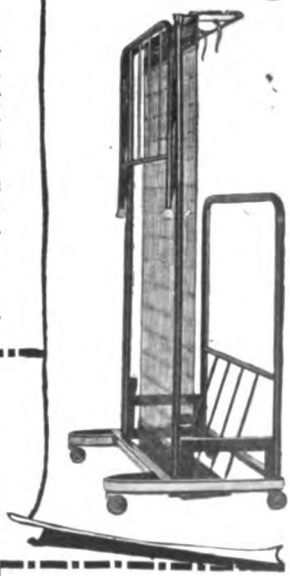
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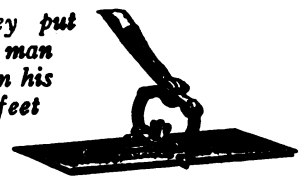
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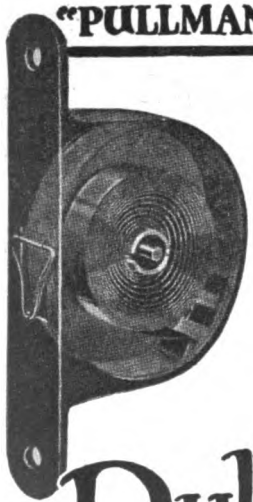
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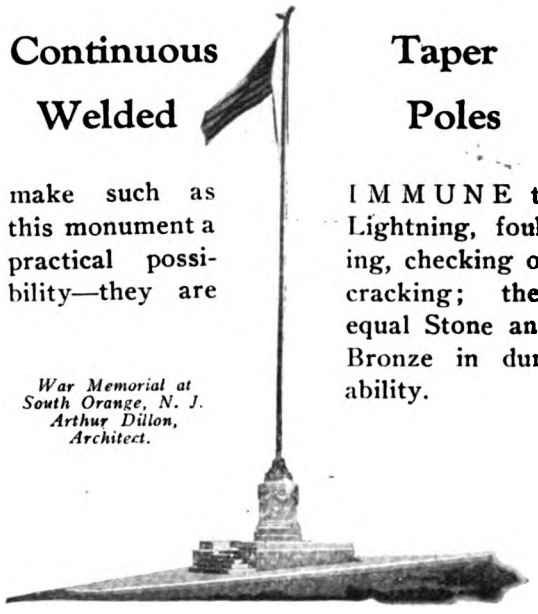
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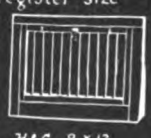
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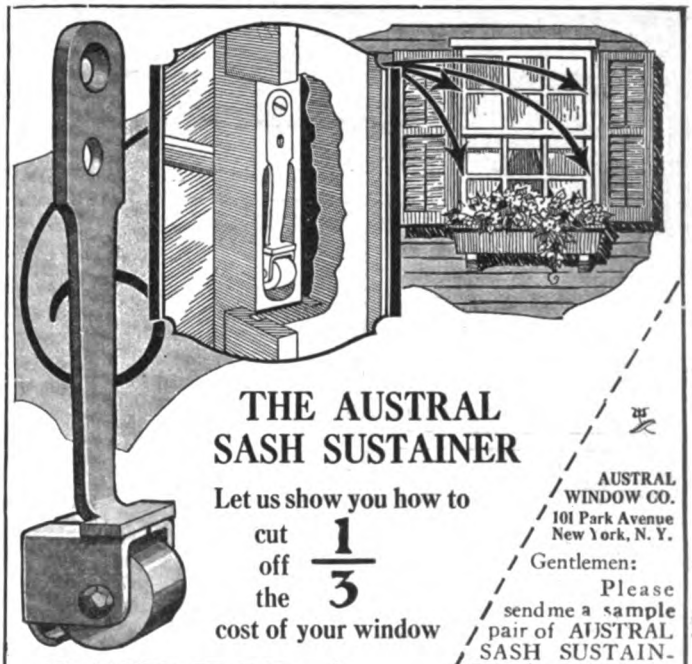
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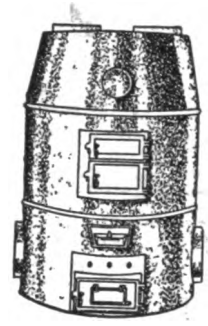
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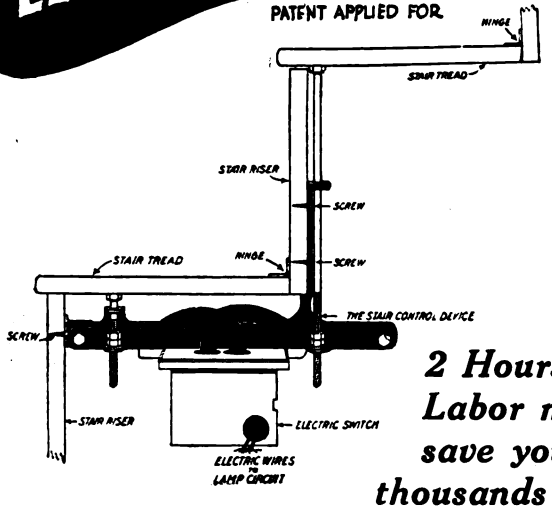
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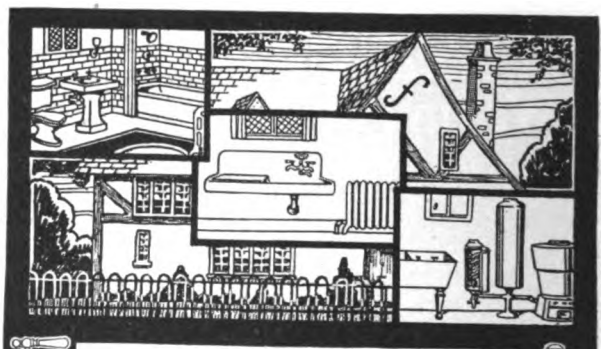
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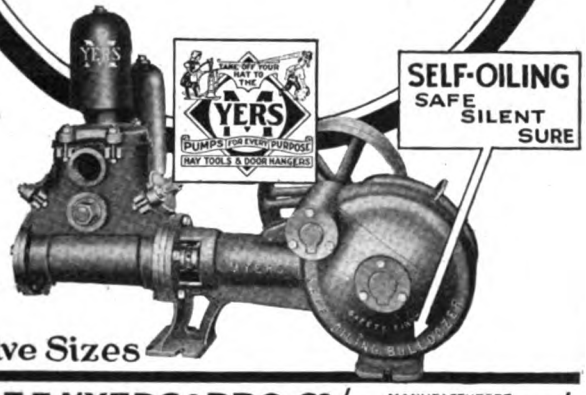
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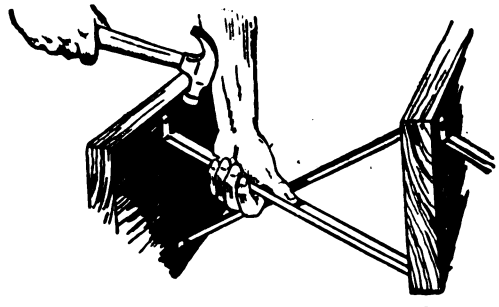
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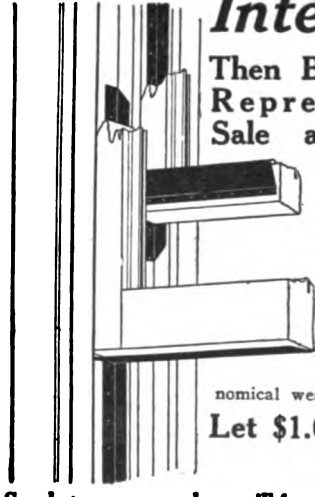
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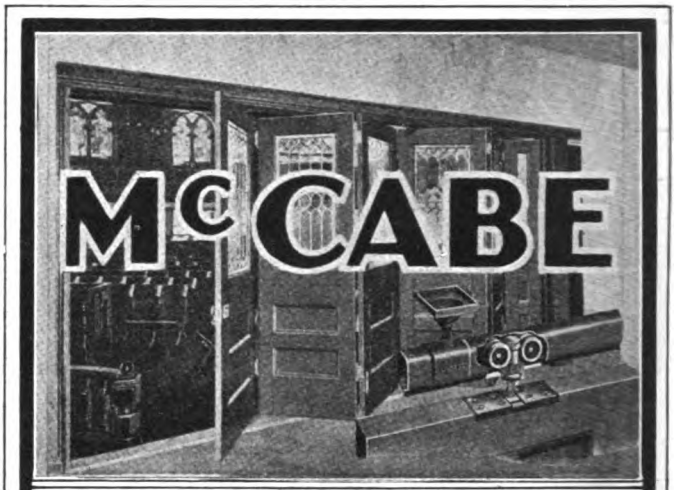
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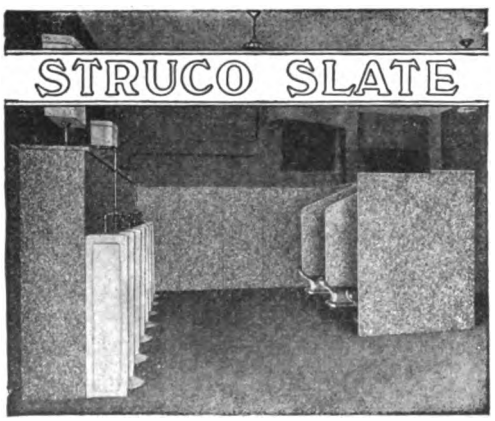
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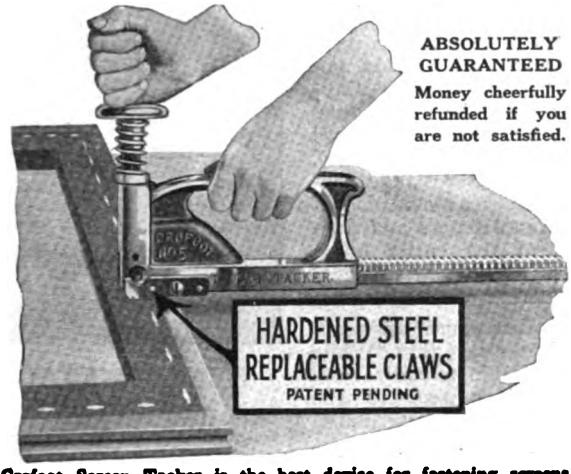
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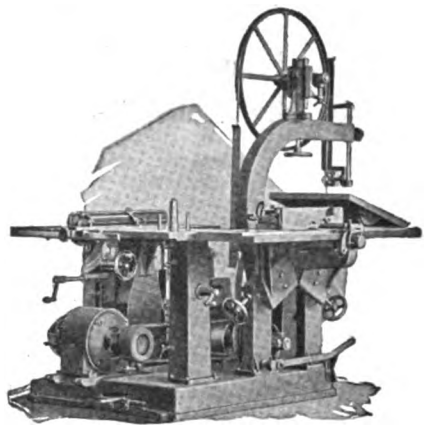
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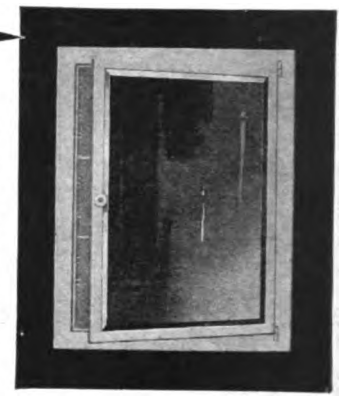
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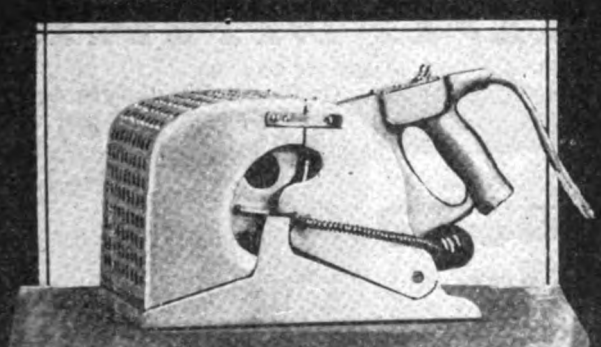
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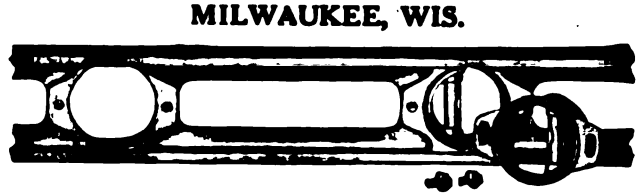
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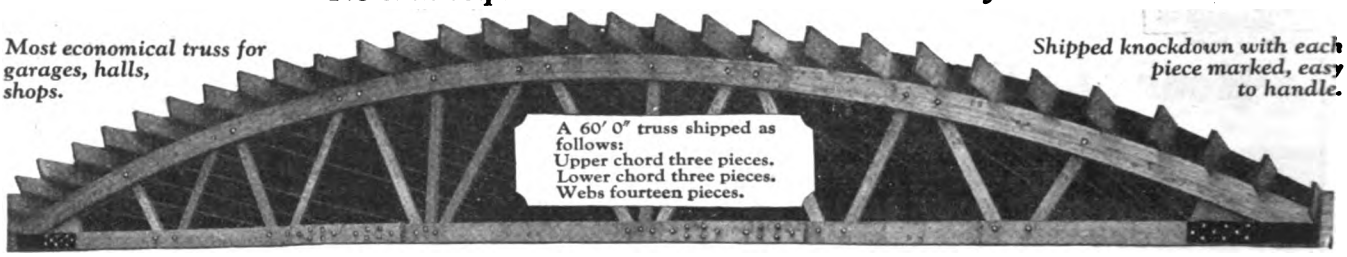
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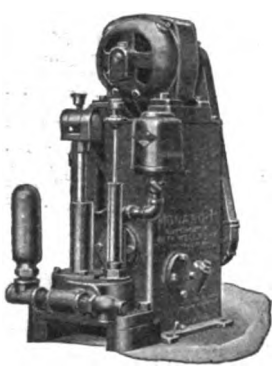
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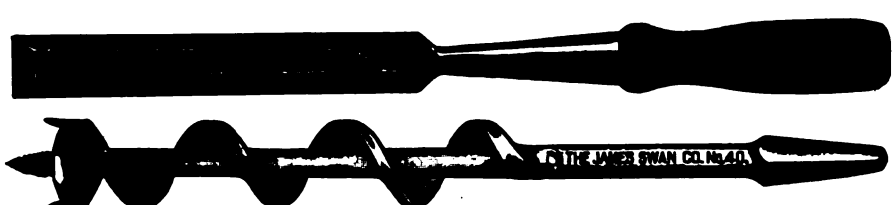
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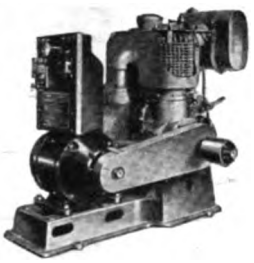
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4. Silent Chain Drive (enclosed) runs in oil.
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Ask for Catalog M-27

4 Sizes—32 Volts 2 K. W.
110 Volts 2, 2½ & 3½ K. W.

The Marco Light & Power Corporation
Lansing, Michigan, U. S. A.



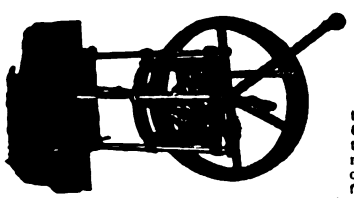
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This combined level and transit will do more in twenty minutes than two man can accomplish in an hour and a half with chalk, square and ordinary level. Prove it to yourself by a 10-day free trial.

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You Can Cut 100 Mortises Daily —and do it easily if you have a Champion Mortiser. This remarkable labor and time-saving machine will cut a perfect mortise with straight sides, smooth bottom and uniform depth in any hard or soft wood. Quickly and easily adjusted to make any size mortise. Requires no skill to operate. Carried anywhere. Weighs only 25 lbs.



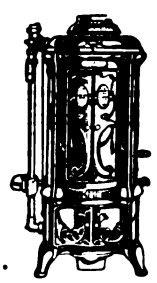
THE Champion Mortiser

Can be used on stock ¼" to 2½" thickness. Cuts a mortise any length to 6", any depth to 4" and any width to 2½". Year's guarantee with each machine. Sent complete with your choice of any two bits (¼" to ⅞") for $40.00 f.o.b. factory. Additional bits to 1¼" $2.00 each. Sold on money-back guarantee. Send for the Champion today. If not satisfied after ten days return at our expense and get your money. Literature on request.

We also make a motor driven model for large jobs. Ask us about it.

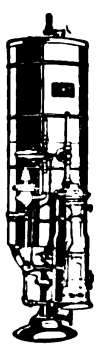
Colgan Machinery & Supply Co.
210 Hayden Bldg. Columbus, Ohio

HUMPHREY
Automatic Gas Water Heaters

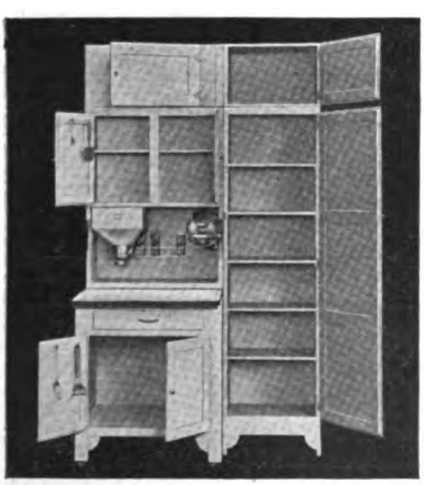


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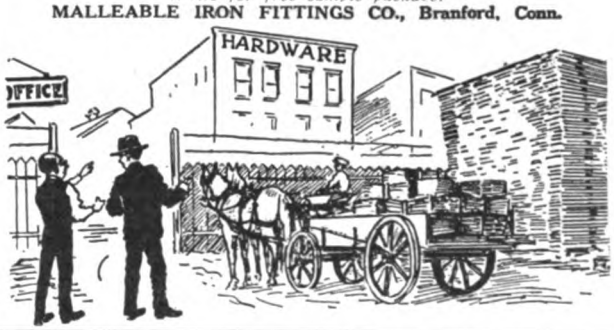
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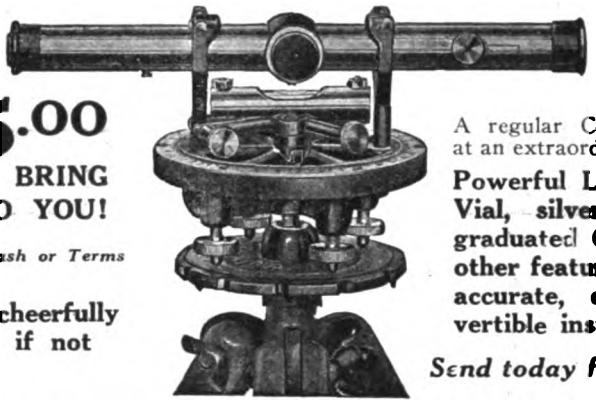
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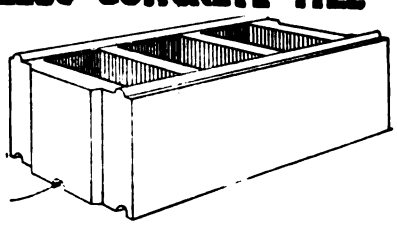


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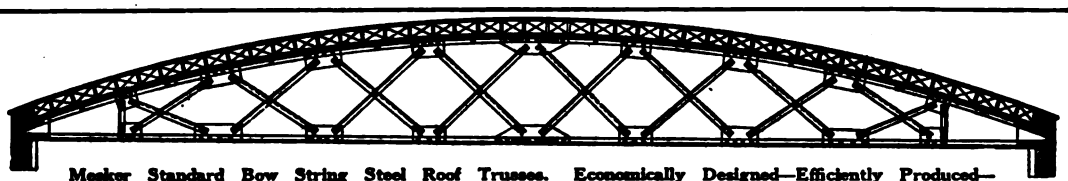
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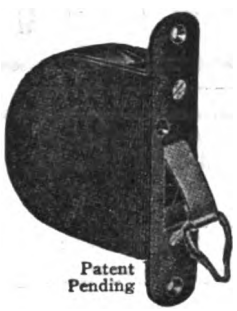
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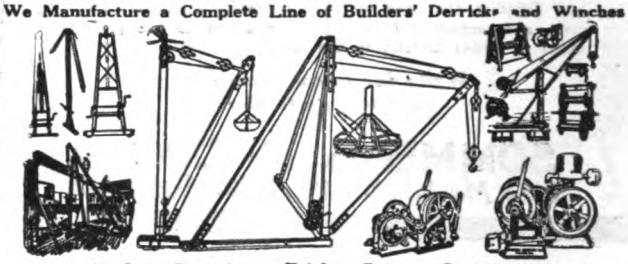
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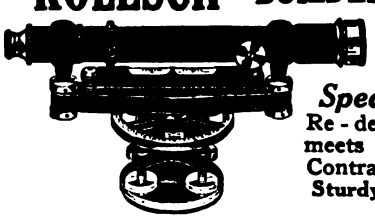
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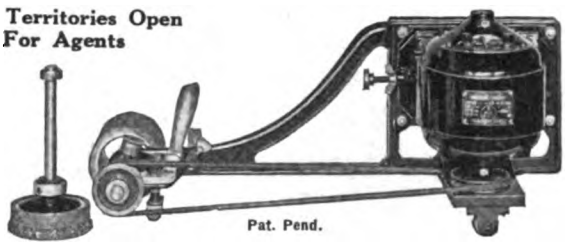
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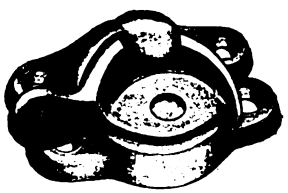
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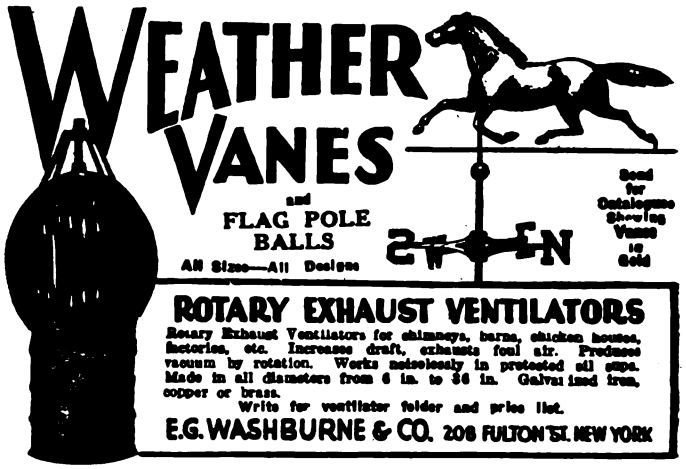
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Sets flush with floor when not in use.

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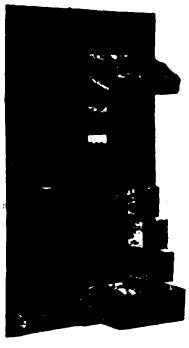
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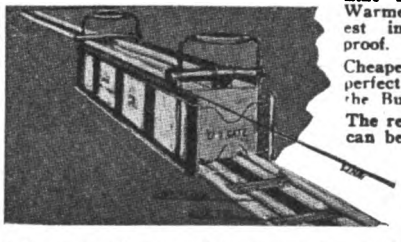
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Clinton Mortar Colors

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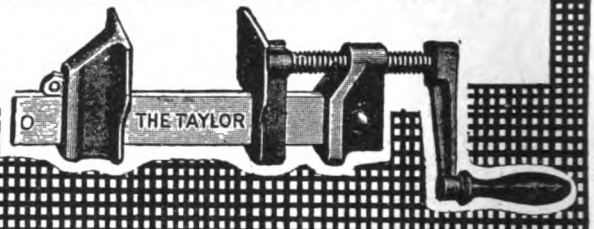
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THEY STOP binding, sticking and rattling sash.

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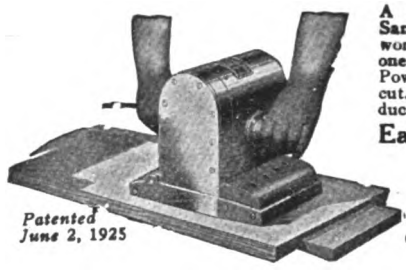
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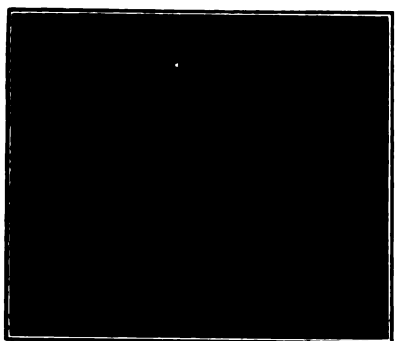


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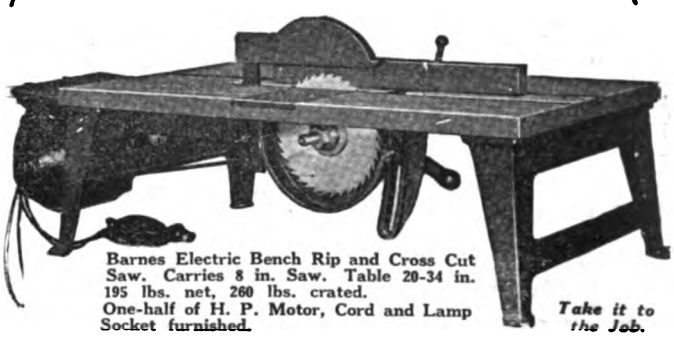
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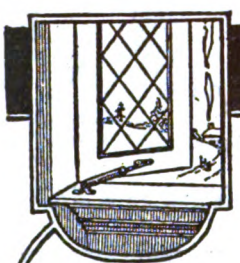
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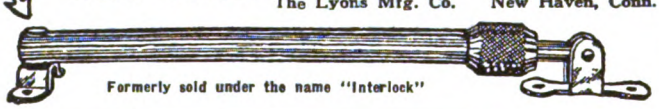
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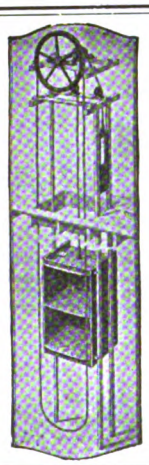
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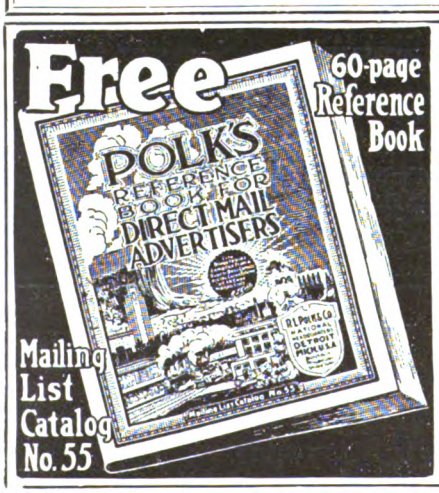
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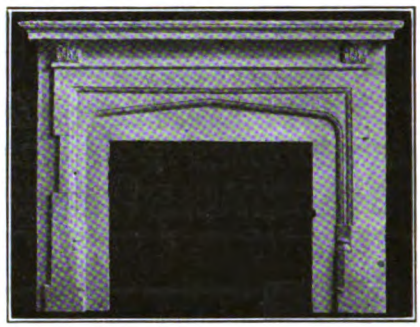


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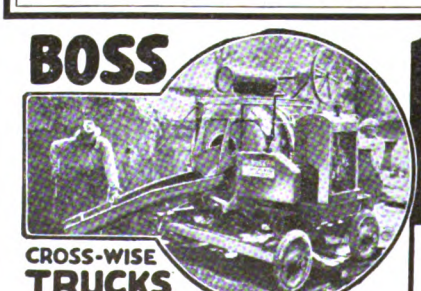
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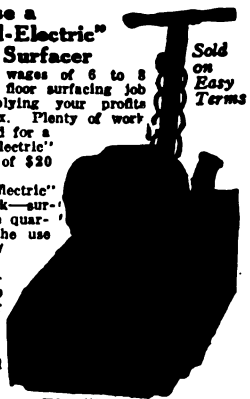
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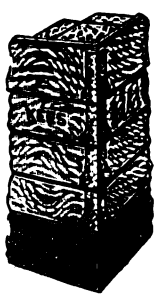
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Milcor Products Insure

Beauty



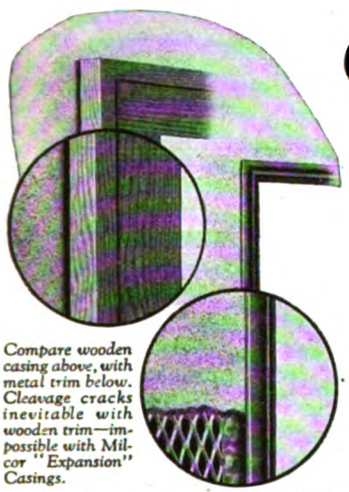
No longer is plaster regarded merely as a base for decoration — it has become *the decoration* itself. The modern vogue of period textures and color tones embodied right in the plaster, demands positive protection against ugly cracks and those zebra-like dust streaks which are characteristic of poor plastering. For complete insurance of permanently beautiful walls and ceilings, insist on *better plastering* on a base of Milcor "Stay-Rib" or "Netmesh" Metal Lath and allied Milcor Products.

Permanence



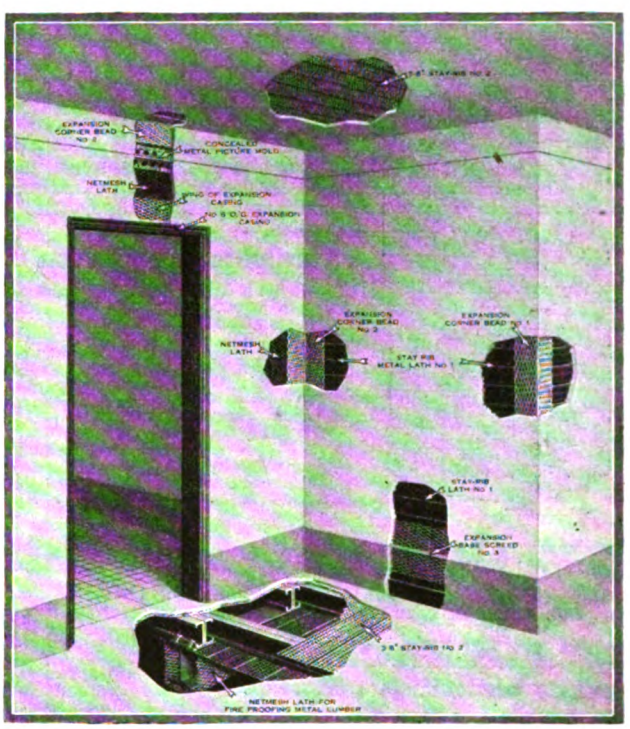
Bumps, jolts, vibrations, natural settling strains, which are certain to cause cracks, breaks and bulges in ordinary walls, will not harm plastering on a base of Milcor "Stay-Rib" or "Netmesh" Metal Lath, with corners protected by Milcor "Expansion" Corner Bead. Through the network of metal, the wet plaster oozes, hardening into thousands of gripping fingers that never let go. This is *safe* construction and it *lasts.* It pays to build this way.

Cleanliness



Compare wooden casing above, with metal trim below. Cleavage cracks inevitable with wooden trim—impossible with Milcor "Expansion" Casings.

Until Milcor "Expansion" Casings were invented for door and window trim, it was practically impossible to avoid cleavage cracks at the juncture of wall and casing. Such cracks were more than unsightly—they were catch-alls for dust, dirt and germs — hiding places for vermin. With Milcor "Expansion" Casings cleavage cracks cannot develop. The expanded metal wings insure a close, permanent bond between wall and casing — sanitary, easy to keep clean, always appearing neat and new.



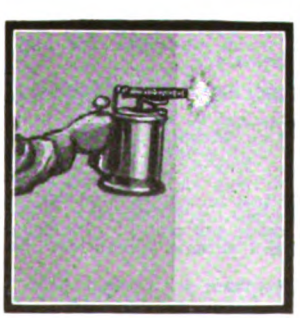
Economy

The use of Milcor "Stay-Rib" or "Netmesh" Metal Lath, "Expansion" Casings, Corner Beads and other Milcor Products, eliminates costly annual repairs and reduces depreciation. Worth-while economies in building costs are also assured by Milcor methods and materials. Milcor "Stay-Rib", for instance, requires about 2/3 as much plaster as ordinary metal lath and also saves much in labor. "Expansion" Casings offer important economies and "Expansion" Corner Beads reduce labor costs. Investigate!

Free

Our technical data book—"The Milcor Manual"—gives detailed information on Milcor Metal Lath and allied products. If your haven't a copy now, write for it. Another Milcor Book which will prove exceedingly valuable to you is "Modern Modes in Better Plastering", showing interiors of many of the finest homes in America, finished in new period-textured plastering. Send for your copy.

Firesafeness



15,000 persons were burned to death last year and 16,000 were injured by fire. The monetary loss was over five hundred million dollars—an average of more than a million and a half dollars per day. 87% of this loss could have been prevented.

By specifying Milcor firesafe construction wherever possible, you can effectively help to minimize the fire hazard. Even Wood Stud construction protected by plaster on Milcor Metal Lath will withstand a severe fire for at least one hour.

Milcor Engineering Service Department

Without cost or obligation, you may secure recommendations and complete estimates on the cost of using Milcor Products in any job you may have under consideration. Milcor maintains a special engineering service department for just this purpose.

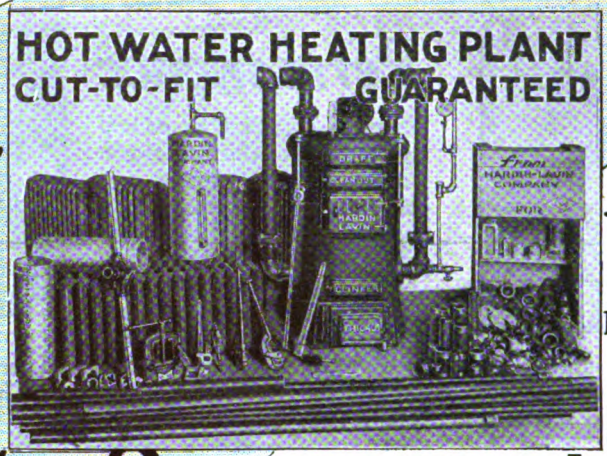
MILWAUKEE CORRUGATING CO., *Milwaukee, Wis.*
Chicago, Ill. Kansas City, Mo. LaCrosse, Wis.

MILCOR
FOR BETTER PLASTERING

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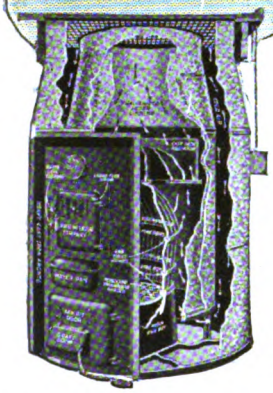
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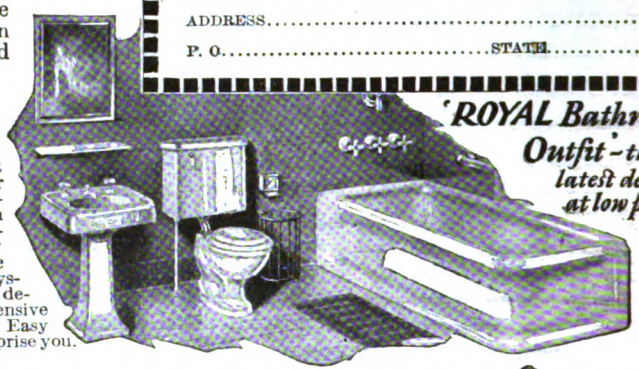
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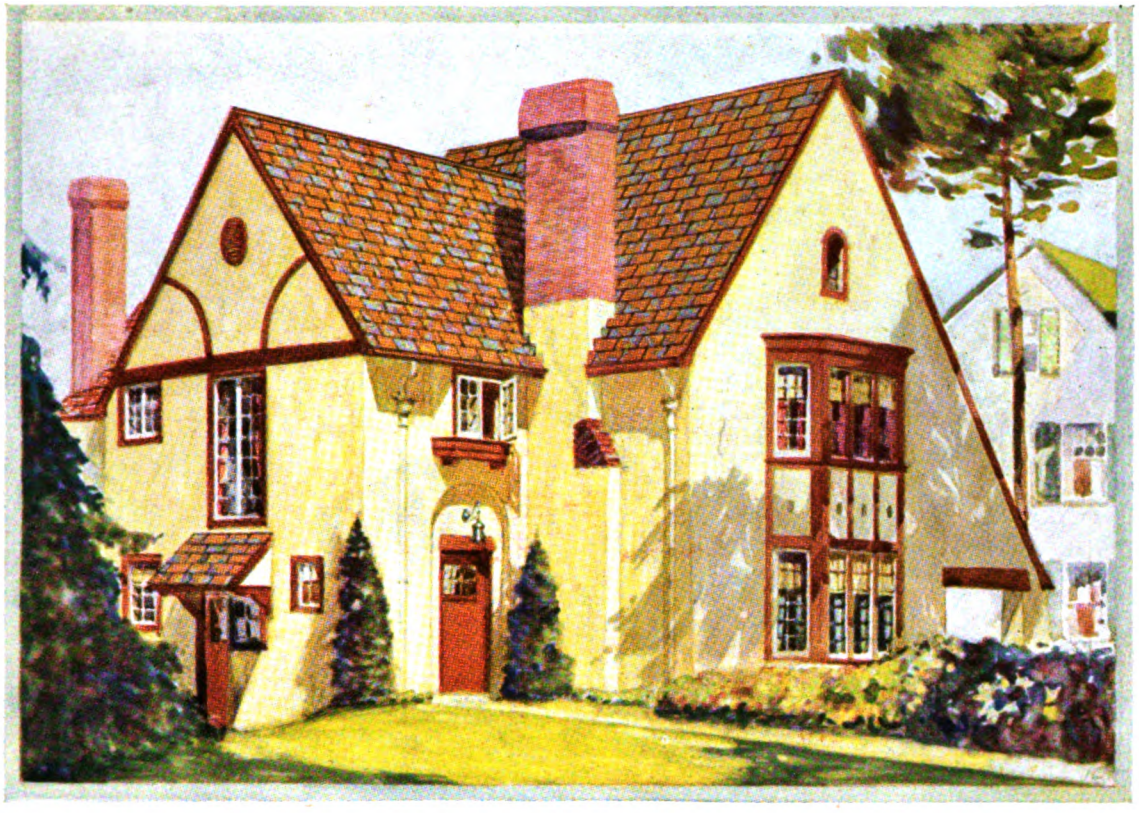
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WHEN the leaves begin to fall the builder's mind turns to thoughts of insulation.

The wise builder protects his houses with BERMICO, the ideal builder's sheathing paper.

BERMICO insulates a home properly against severe weather conditions.

Made of New England spruce sized with rosin.

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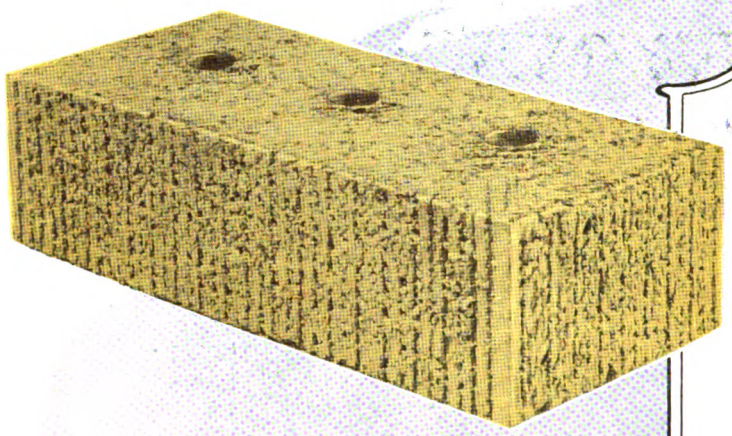
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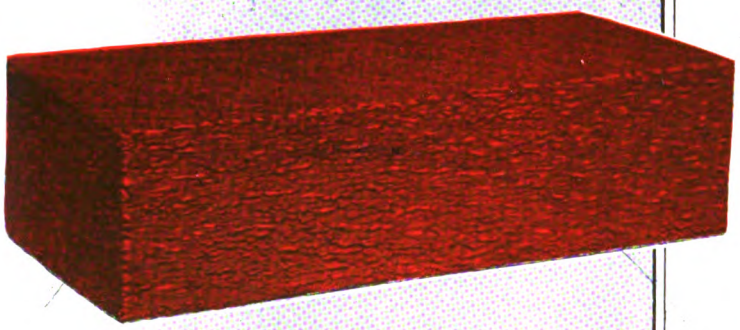
48TH YEAR

November 1926

HANLEY COMPANY
FACE BRICK



SUMMER BUFFS
Vertical Rug Texture



BRADFORD REDS
Matt Texture



SUMMER BUFFS
Smooth Impervious Wire Cut

THE largest and most modern plants in the Face Brick industry enable us to offer a wide variety of selection and unusual service to contractors, builders and realtors in Smooth Dry Press, Smooth Wire Cut, Vertical Texture and Matt Texture.

These four types of Tunnel Kiln Face Brick can be furnished in rich red, clear buff or manganese grey colors, and are distinctive for their high degree of mechanical excellence.

HANLEY COMPANY
BRADFORD, PA.

NEW YORK OFFICE:
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Corner Fifth Avenue

Plants at Bradford, Lewis Run, and Summerville, Pa.

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Library



See how the stucco keys itself into the dove-tail grooves, and is supported between the studdings. The result is a solid UNIT WALL.

6 times the strength at ¾ the cost!

An improved reinforcement for permanent stucco

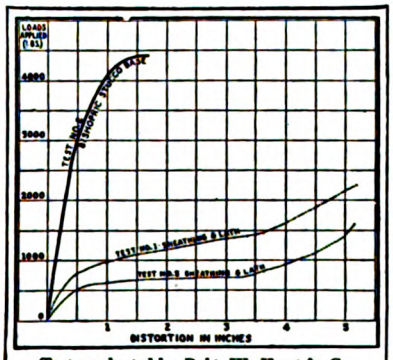
You accomplish a double purpose when you build with Bishopric Reinforcing Base. First, you get a stucco wall of *super strength*. Second, you save 25% on labor and materials.

Bishopric Base is stronger because it is made *scientifically*. Bone dry creosoted wood bars are embedded under great pressure into finest quality fibre-board heavily coated with asphalt mastic. The result is a sound-deadening, vermin-proof, fire-resisting base of unusual strength.

Actual tests show that Bishopric Reinforcing Base *is over 6 times as strong as lumber sheathing.* (See chart at right.)

With Bishopric Base you save *one-fourth* the usual cost—

—*in labor*, because Bishopric Base comes complete to the job in rolls, is quickly cut to size, and can be laid by one man;



Test conducted by Robt. W. Hunt & Co., of Chicago, Illinois—one of America's foremost engineers.

WHAT THE CHART REVEALS

The results graphically portrayed in this Chart show that by *actual test* Bishopric Stucco Base stands *twice* as much weight strain as wood sheathing and ordinary lath, with less than *one-third* the distortion of the base.

Bishopric will thus stand a *far greater strain than any stucco base would ever be subjected to!*

—*in reinforcement*, because Bishopric Base, being super-strong in itself, can be laid direct to studdings, requiring none of the sheathing used to reinforce ordinary construction;

—*in materials*, because the dove-tail construction of the Base requires less stucco, on either interior or exterior plastering. And the heavy fibre-board prevents any of the stucco from falling down the spacing between the inner and outer walls.

Send for NEW BOOKLET

If you want the most up-to-date information on how to get excellent results with stucco *every* time, send for our new booklet "Looking Behind the Stucco."

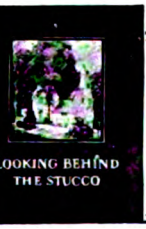
It is free to you. Simply sign and mail the coupon below.

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The BISHOPRIC MFG CO OF CALIFORNIA
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THE BISHOPRIC MFG. CO.
811 Este Avenue, Cincinnati, Ohio.

Please send me without charge your new booklet, "Looking Behind the Stucco."



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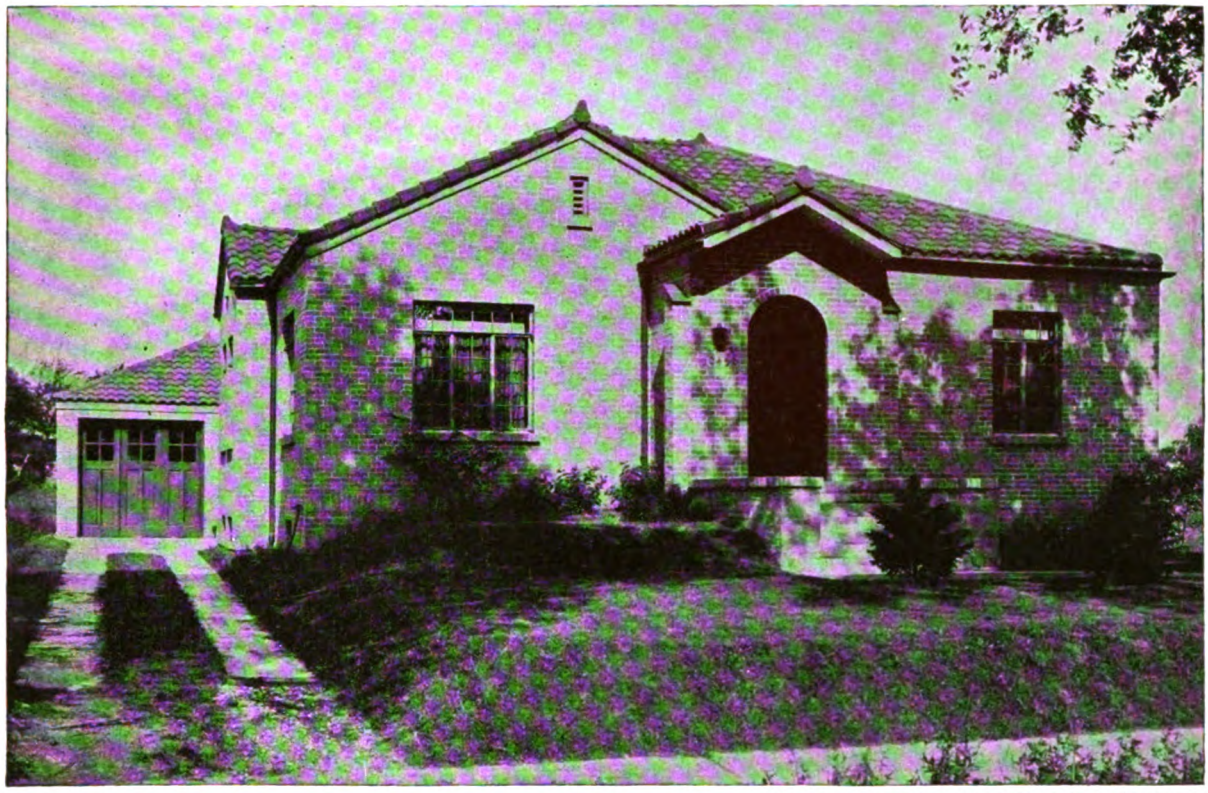
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Face Brick is Suitable for All Types of Houses

THIS attractive Face Brick Bungalow was built by Swenson-Bickel Co. They have attained unusual success and an enviable reputation by building exclusively of Face Brick with its beautiful and permanent qualities.

For houses of the Spanish-type, as the one shown above, the light-toned ranges of Face Brick are peculiarly fitted. The grays, light tans, buffs, creams and pinks available in everlasting Face Brick may cost a little more in the beginning but they require no repairs or upkeep and their colorful beauty remains through the years.

FULL INFORMATION ON FACE BRICK IS AVAILABLE IN THESE BOOKLETS:

"Story of Brick" shows modern homes and discusses comparative costs. Sent free.

"A New House for the Old" shows savings effected by veneering old houses with beautiful Face Brick. Sent free.

"A Manual of Face Brick Construction," 116 pages, a text book on the three types of Face Brick wall construction, giving the contractor all the information he needs in building Face Brick houses. Sent for one dollar.

"Face Brick Bungalow and Small House Plans," a series of 128 designs of Face Brick houses, distinctive in design, convenient in floor plan and economical to build, issued in four booklets showing 3 to 4-room houses, 5-room houses, 6-room houses and 7 to 8-room houses. The set, one dollar; single booklets, 25 cents each.

"The Home of Beauty," fifty 6-room houses selected from a nation-wide architectural competition. Sent for 50 cents.

"Two Apartment and Double House Plans," 14 attractive designs of duplex and double houses, showing 28 plans of 5 and 6 rooms each. Sent for 25 cents.

For all of the houses shown in these booklets complete working plans, specifications, etc., are available at nominal prices.

AMERICAN FACE BRICK ASSOCIATION

1764 Peoples Life Building
CHICAGO

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A·F·B·A USE FACE BRICK —it Pays

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zouri key-set store front construction



It is a substantial, straightforward, business-like store front, and has proven its value as a business getter

Zouri Key-Set Store Front Construction

Store front display is one form of advertising in which the actual goods constitute the main selling appeal. How important that they have every advantage of frame and setting!

A Zouri Store Front takes the place of those elements which enhance an advertisement on the printed page. Its substantial, easy lines and rugged copper construction speak quality. It is an evidence of liberal patronage; a standing testimonial that other satisfied customers have built up a flourishing business.



The Zouri Key distributes pressure applied in setting to all points along the rigid copper moulding, greatly reducing the chance of breakage

The contractor, going further into the matter, finds underneath a unique construction that fulfills the promise of its surface beauty. Zouri's special safety features—Indirect Key Setting, Self-Adjusting Setting Block, Drawplate and Reinforcing Bracket—assure him of satisfaction during its installation and its life.

Send for our detail sheets and data book on Zouri. They tell the story

Zouri Drawn Metals Company

Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

zouri key-set store front construction

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A new way to
WINTER PROFITS

DURING the winter months your business is not as active as at other times of the year. Building slacks off . . . your earnings shrink.

But an unusual winter profit opportunity has developed in recent years for every builder and carpenter. It has pointed out a way to offset this depression.

For in Celotex Insulating Lumber you have a product that can be sold for every old house in your town as well as every new one. That opens up hundreds of sales opportunities for you . . . *right now.*

You don't have to wait for people to build to sell them Celotex. The use of Celotex as attic, basement, porch and garage lining and insulation is rapidly spreading over the country. People are wanting to make their present homes more comfortable . . . to get their share of the big savings Celotex makes in fuel bills.

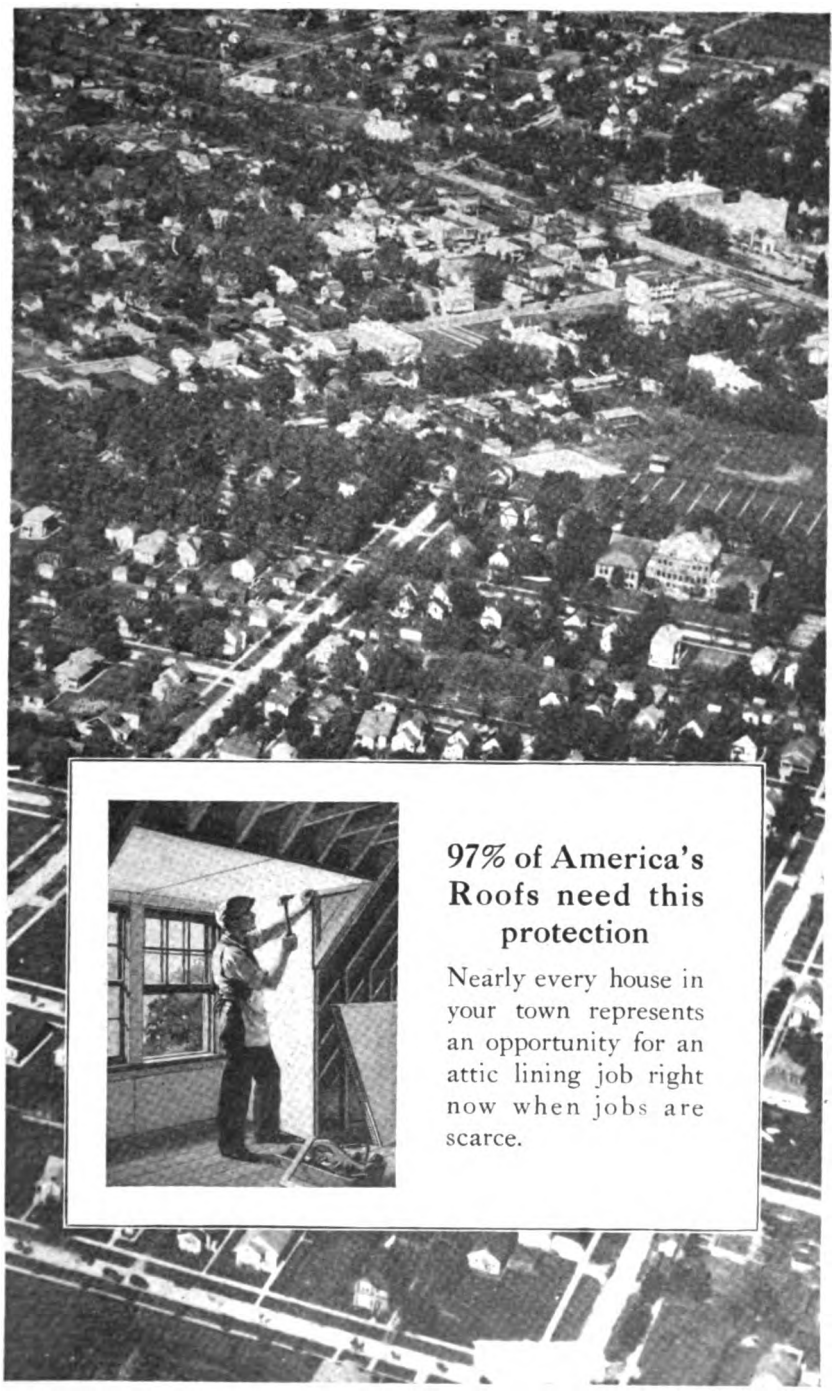
This idea is being featured in Celotex national and newspaper advertising during the fall and winter months. It offers you a big opportunity to develop an extra volume of business at a time when it will be most welcome.

You can make a good profit on each job because Celotex is so easily and quickly applied. The broad, light boards are sawed and nailed just like wood lumber. And every piece is usable—free from cracks, knot holes or stain. That saves material.

This profitable extra business isn't hard to get. When you explain the many advantages and the low cost of lining an attic, basement, porch or garage with Celotex you are offering your prospects a real service—one they'll be quick to appreciate.

Send the coupon below for more information about the winter uses of Celotex and about how you can sell them. It may well be the means of increasing your profits several hundred dollars this season. And all it will cost you is a postage stamp to mail the coupon.

Photo © Chicago Aerial Survey Co.



97% of America's Roofs need this protection

Nearly every house in your town represents an opportunity for an attic lining job right now when jobs are scarce.

THE CELOTEX COMPANY, CHICAGO, ILL.
Mills: New Orleans, Louisiana
Branch Sales Offices in many principal cities
(See telephone books for addresses)

Canadian Representatives: Alexander Murray & Co., Limited
Montreal, Toronto, Halifax, Winnipeg, Vancouver

CELOTEX
INSULATING LUMBER

THE CELOTEX COMPANY, Dept. T-251
645 N. Michigan Ave., Chicago, Ill.

Send more information about Celotex as attic, basement and garage lining.

Name.....

Street.....

City..... *State*.....

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As announced last month, the selling and servicing of Eternit Asbestos Shingles, Asbestos Lumber and Asbestos Corrugated Roofing and Siding previously handled by the American Insulation Company is now handled by Eternit, Inc., exclusively. No change in personnel, policy or methods. Simply a complete concentration on the needs and demands of Eternit users and dealers.

ANOTHER

big Eternit plant at St. Louis, Mo.

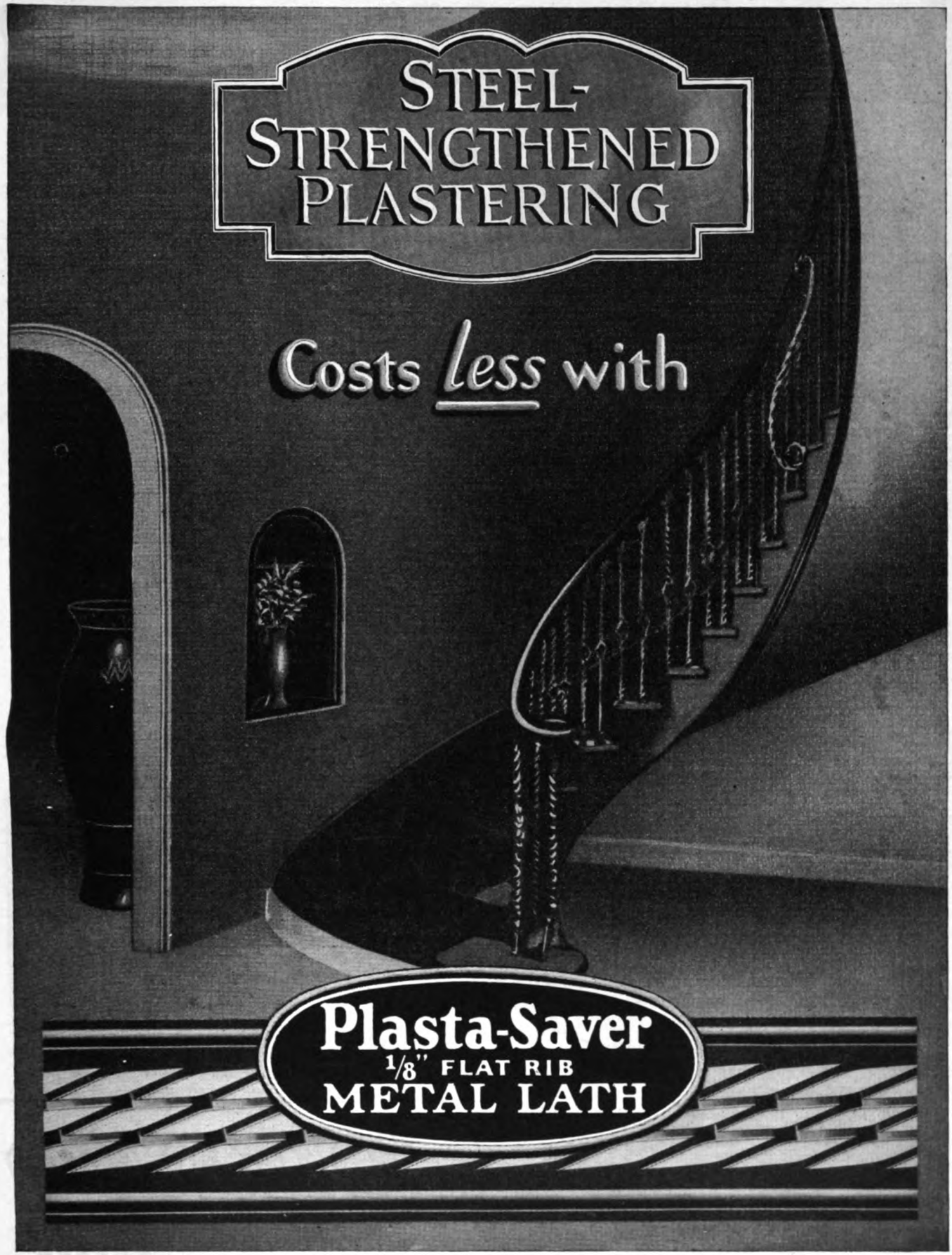
ETERNIT Asbestos Shingles are sweeping the country. New territories are opening of their own volition. From every side comes the demand of builders, roofers and roofing dealers for more of those *stronger, tougher, more resilient* asbestos shingles.

More Eternits are on the way! The big, new million dollar plant at St. Louis will soon be in production. New distribution points are being added (see map) until eventually there won't be a nook or cranny in the whole United States that's not thoroughly covered by the new Eternit plan of sales and service as perfected by Eternit, Inc.

This is not only the Age of Asbestos Shingles. It is the Age of Eternits. The long-fibered South African asbestos (which is combined, of course, with highest grade Portland cement) and the layer-built construction have come into their own. If you are a builder or roofer, don't fail to learn why Eternit is the only roofing you should use. If you are a roofing dealer, write us about the Eternit franchise in your locality—if it is still open. Eternit, Inc., Philadelphia, New Orleans, St. Louis, Boston.



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→ *Don't you want particulars and samples? Write us now.* ←

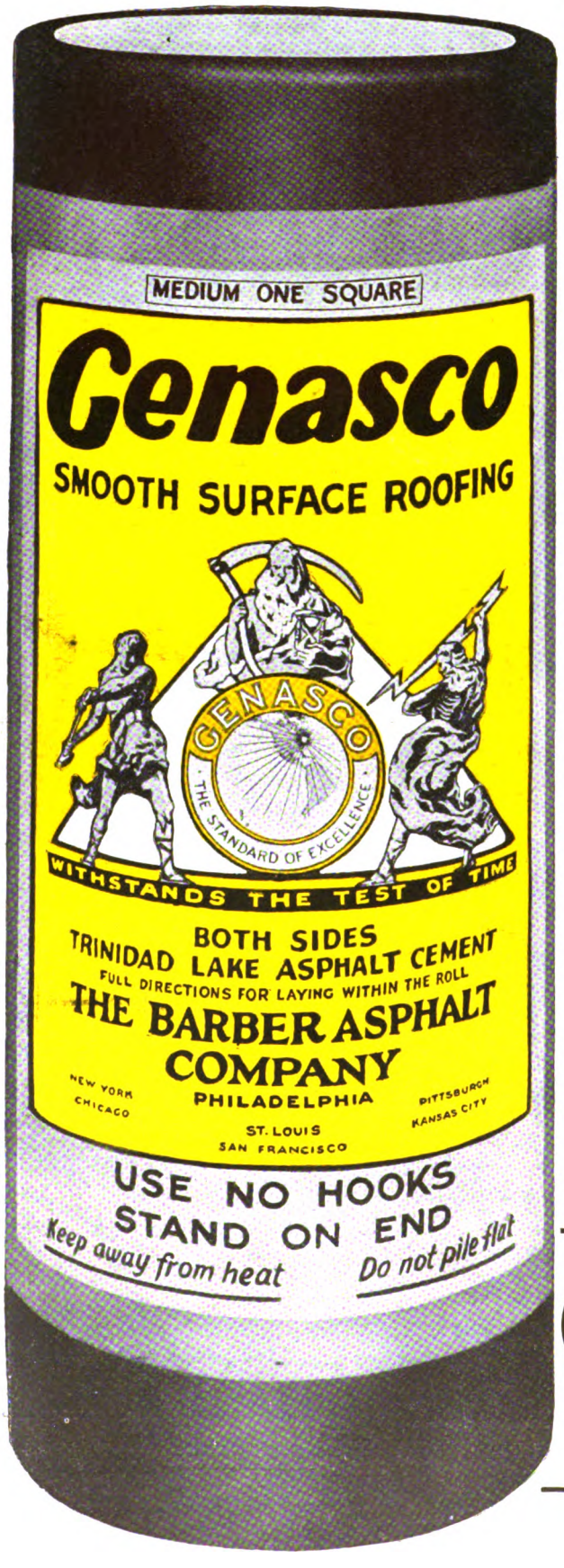
NORTHWESTERN EXPANDED METAL COMPANY

1204 Old Colony Building. CHICAGO

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treasure from a lake!





Trinidad Lake Asphalt—"nature's everlasting waterproofer"—is dug from the surface of Trinidad Asphalt Lake with mattocks, broken into lumps, loaded into small cars, and transported direct to vessels in the harbor.

A golden trail of dollars follows it through to YOU!

Every one of the various Genasco Protective Products proves a real treasure wherever it is used—and a treasure for the contractors and builders who apply it.

Genasco Roofings and Shingles owe their unequaled wear and weather resistance to Trinidad Lake Asphalt—famous as a street-paving material for a half-century.

Genasco Roll Roofing has conclusively demonstrated its superiority. Its long life and low cost make it the ideal roofing for farm and industrial buildings.

The reinforcing material is a rugged, rag felt, selected for its great tensile strength and power of absorbing the waterproofing saturant.

Genasco Roll Roofing is furnished in two styles—smooth surface and slate surface. The latter comes in three colors—red, green, blue-black—and is highly fire-resisting. A supply of Kant-Leak Kleets, an excellent roof-fastening device, is packed in each roll.

The Genasco Line includes these other desirable products. A complete list, with full information, gladly furnished on request.

Genasco Sealbac Shingles
Genasco Stucco Base
Genasco Roof Coatings
Genasco Deadening Felt
Genasco Asphalt Putty (Roofing Cement)
Genasco Insulating Paper
Genasco Red Sheathing Paper
Genasco Wall Lining

The Barber Asphalt Company

New York Chicago Philadelphia St. Louis Kansas City
Pittsburgh San Francisco

Genasco

Reg. U. S. Pat. Off.

Roll Roofing

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treasure from a lake!

A source of steady profit right within YOUR reach!

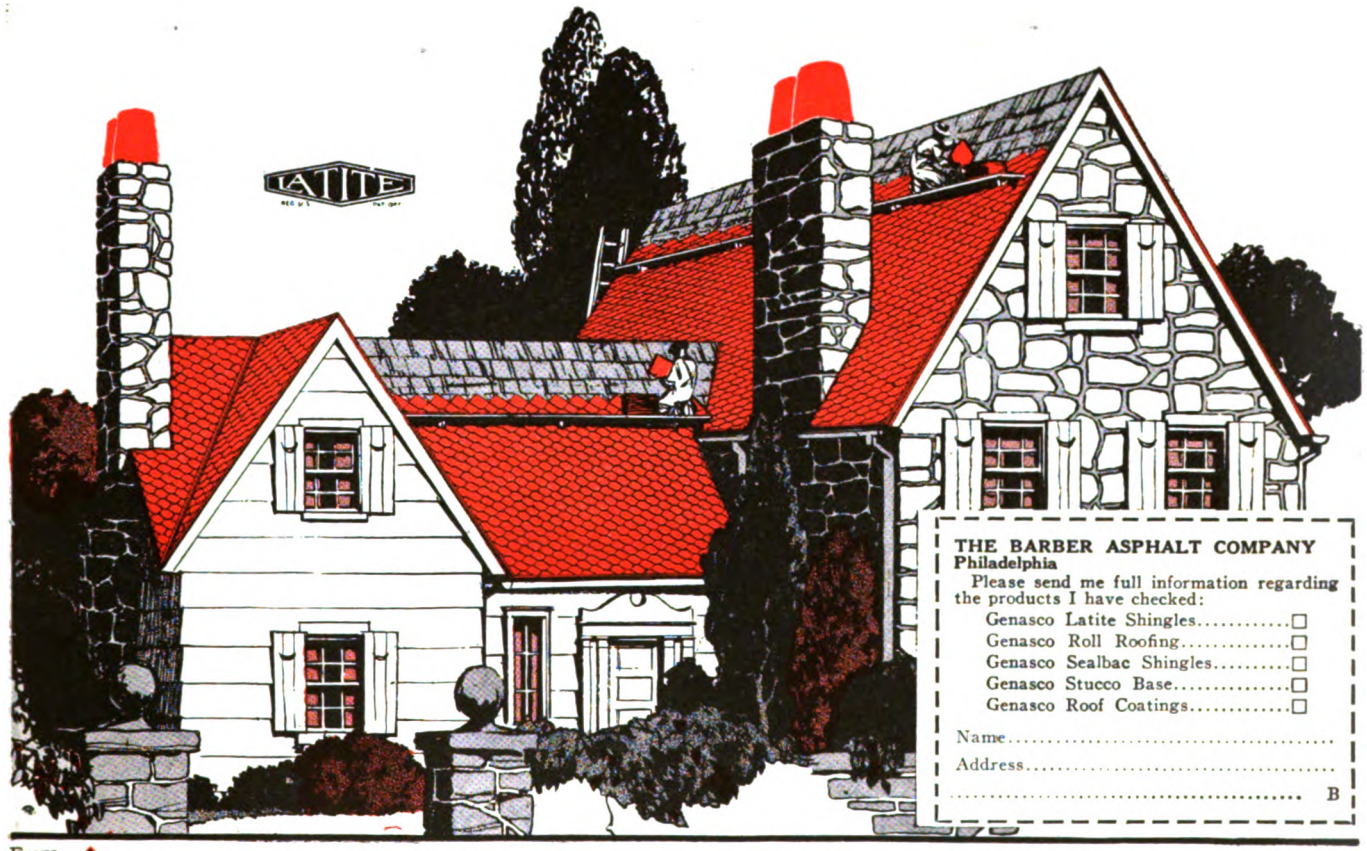
Another Genasco product of the utmost importance to every builder and contractor is Genasco Latite Shingles—and with a regular department for laying them you not only make a profit on the selling, but also on applying them.

Genasco Latite Shingles are built on a foundation of tough, high-quality felt, heavily saturated and then coated on *both sides* with Trinidad Lake Asphalt Cement. This undercoating is the exclusive "Sealbac" feature, which protects the body of the shingle from the attacks of condensation and assists in the closer adhesion of the shingles to each other.

They have the additional protection of crushed slate—a surface coating in three natural, unfading colors (red, green, blue-black) which makes them fire-resisting.

While Genasco Latite are the ideal shingles for new buildings, they are also particularly adapted for laying over old wood shingles — saving all the trouble and expense of ripping off the old shingles. There's no exposing the buildings to the weather—you can do the work all year around—and we keep on telling millions of people about Genasco Latite Shingles through our two-page color advertisements in the Saturday Evening Post in order to help you get this business.

We show you how to take care of the business, too—every detail—and we would like to tell you about it. Why shouldn't you be the man to do the Genasco Latite Roofing in your locality! Write to us today—the coupon makes it easy for you.



THE BARBER ASPHALT COMPANY
Philadelphia

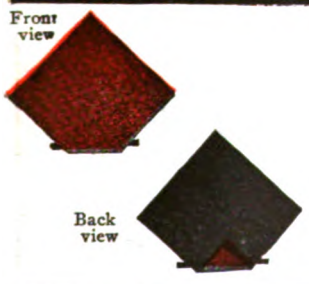
Please send me full information regarding the products I have checked:

- Genasco Latite Shingles..... ☐
- Genasco Roll Roofing..... ☐
- Genasco Sealbac Shingles..... ☐
- Genasco Stucco Base..... ☐
- Genasco Roof Coatings..... ☐

Name.....

Address.....

..... B



Front and back view of a Genasco Latite Shingle showing the patented "key"—**invisible on the completed roof**—that locks each shingle tightly to those underneath. This is the exclusive feature that makes Genasco Latite Shingles so well adapted for laying over old wood shingles.

Genasco

Reg. U. S. Pat. Off.

Latite Shingles

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Springsteen and Goldhammer, Architects

"Pickwick Arms" Apartment, New York City

When the Brickwork is "Just Right"

"Just Right." That's the effect produced by a careful selection of brick. Near you is a Fiske Brick dealer who can help make your brickwork "just right." He has a wide range of colors and textures from which to make your choice. Not only can he meet your most exacting requirements, but he can assist you in determining the most appropriate brick to use, mortar, bond, etc.

Know your Fiske Dealer. You'll find him also "Just Right."

FISKE & COMPANY, INC.

New York Boston Watsontown, Pa.

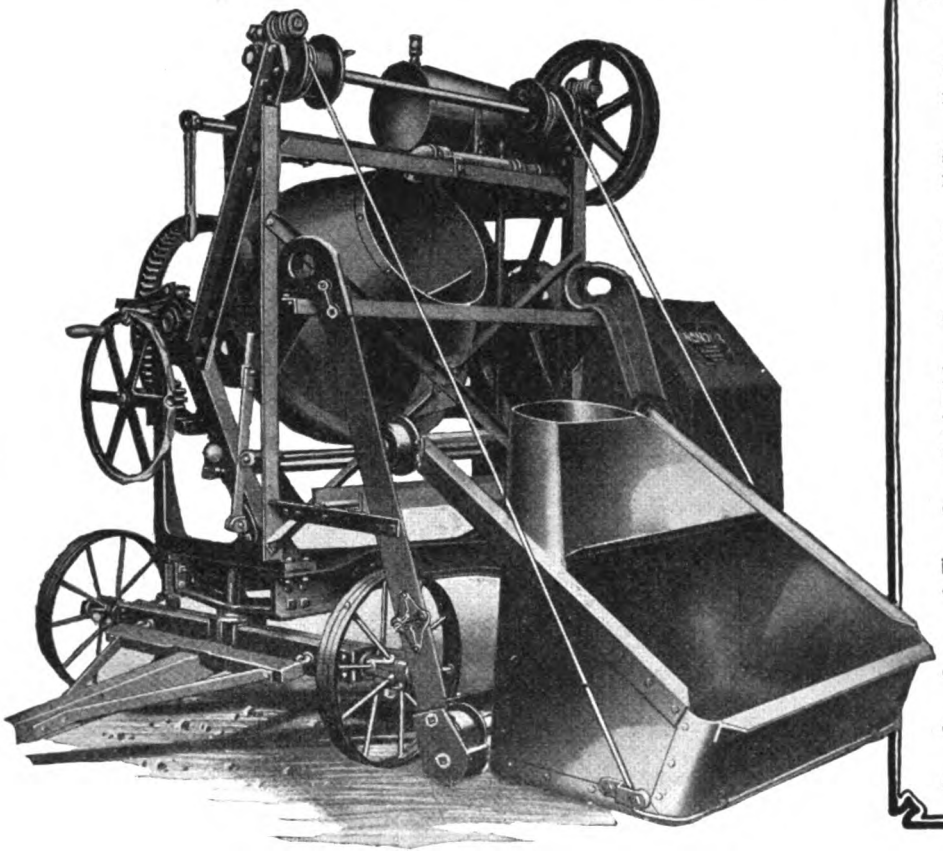
FISKE BRICK

"Tapestry," "Tapestry" Antiques, Fisklock, Fiske Milton Reds, Fiske Darlington Grays and other high-grade Face Brick

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WONDER 5-S

A NEW MIXER VALUE



Outstanding WONDER Features

Distinctive shaped mixing drum revolving on a nest of ball bearings.

Mixing drum bearing guaranteed for the life of mixer.

Perfectly balanced mixing drum, tilts easily and quickly.

Thrust screw type loader clutch.

Main drive shaft supported in 4½" bronze bearing on one end, and 7" babbitted bearing on the other.

Track type loader—easily extended any time.

High grade industrial power plant—magneto equipped.

Alemite lubrication.

Engine house with full opening, ventilated doors.

Low, wide, quick discharging loader skip.

Hot pressed I-beam skids.

DO YOU KNOW another mixer that embodies so many advanced engineering features as the **WONDER** "5-S" at anywhere near its price? It has a capacity of five cubic feet of mixed concrete per batch—a one bag mixer up to and including a 1-2½-4 mix.

Compare the **WONDER** "5-S" with any other mixer of its size on the market!

That's the easiest and best way to select the right mixer. For simplicity—long life—successful performance—speedy operation—the **WONDER** "5-S" has no equal.

The **WONDER** catalog clearly pictures and describes. It will assist you in your selection and will gladly be sent upon request without obligation. Also ask for new low prices!

Construction Machinery Co., Waterloo, Iowa, U.S.A.

Founders of the Single Opening Tilting Mixer Industry

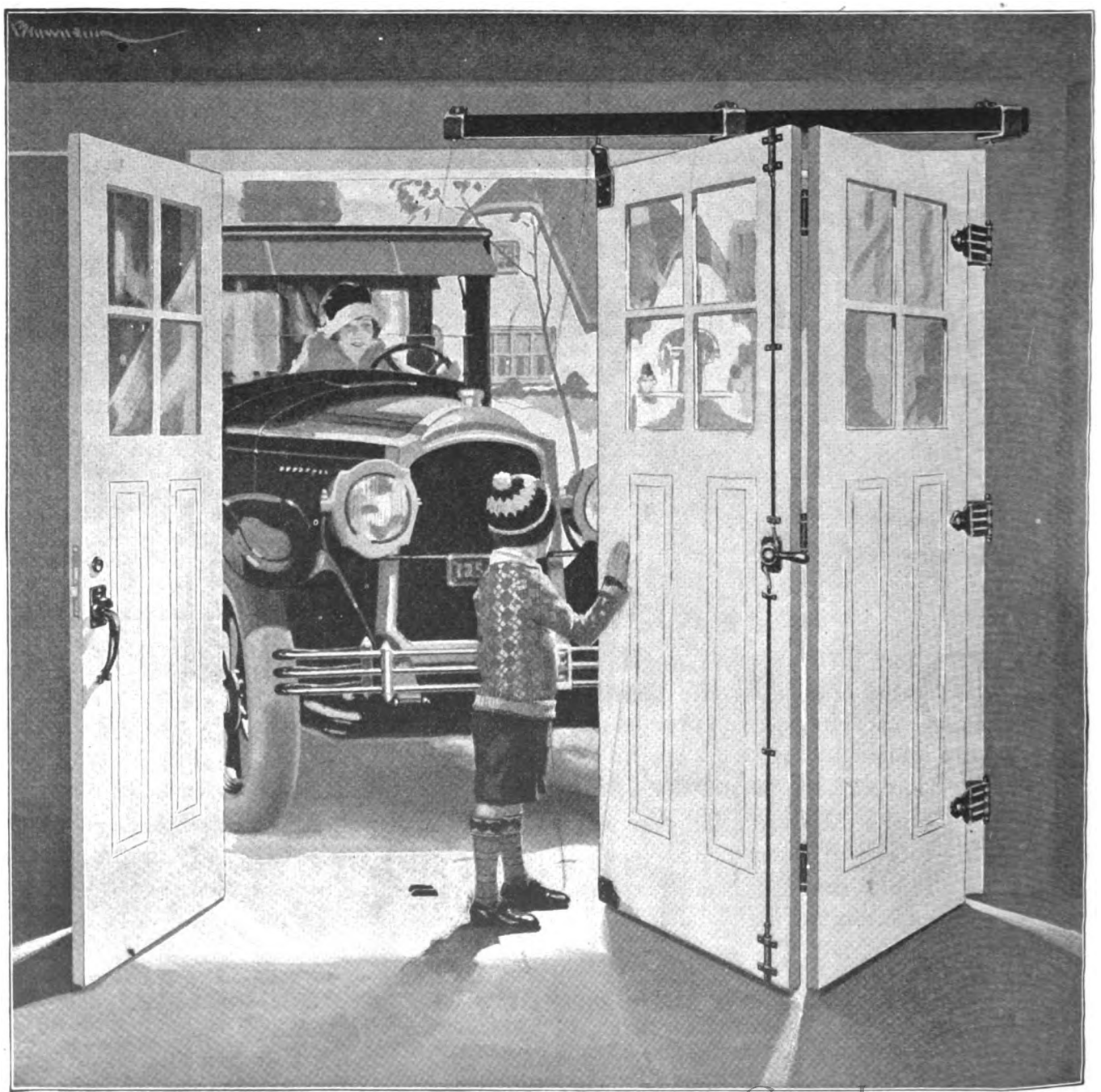
Western Office
455 East 3rd St., Los Angeles, Cal.

Central Office
315 W. Maryland St., Indianapolis, Ind.

Eastern Office
Widener Bldg., Philadelphia, Pa.

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DooR-
with ordinary hard-
Slide the doors *inside*
through with



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Ways *ware are a problem!* and you are trouble *for all time*

THE trouble with ordinary garage doors is: they shrink or swell, stick, sag and the hardware gets rusty. That's because the doors and the hardware are unprotected from weather—the equipment was not designed by experts who know garage door requirements.

All of these annoying, inconvenient features are impossible *when the doors are equipped with* Slidetite *hardware.*

By sliding and folding inside, *Slidetite* equipped doors leave a clear, unobstructed, full-width opening. Wind cannot blow them shut. Ice and snow cannot impede their operation. Dampness cannot directly reach the hardware. Simple, easy adjustments are complete assurance that doors will always fit snug.

Slidetite equipped doors are ideal for any garage, 2 to 10 doors, openings up to 30 feet wide, and *no center post.*

Consult R-W door experts freely. Richards-Wilcox hardware is the largest and most complete line of door hardware manufactured.



When a garage is not deep enough to fold the doors inside—*Slidaside* is the correct hardware. Doors so equipped slide around the corner, flat against the wall.

Slidaside can be used for two car garages by sliding doors to both walls, and is adaptable to any garage, regardless of distance from jamb to side wall.

Both *Slidaside* and *Slidetite* equipment provide for an entrance door—does away with expense of a separate entrance.

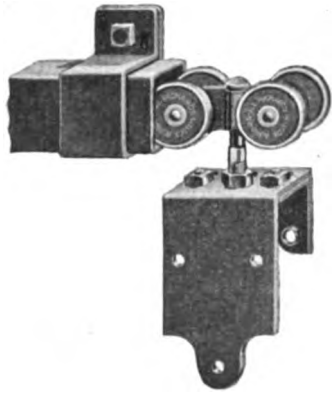
Barn Door Hardware Protected from Weather

Working parts of R-W barn door hardware shown here are *completely enclosed*



Fault-Proof trolley door hanger (*above*) requires no loose brackets. You attach it directly to side of building. Track is in two pieces riveted together. Front extends down below top of door making it weatherproof and bird proof. Steel roller bearings. Made for sliding doors weighing up to 300 pounds.

Stayrite barn door hanger (*below*) is made of hardened steel frames and ball bearing forged steel wheels 2⅜ inches in diameter. Lateral and vertical adjustment. All exposed parts are galvanized or baked enamel. Made for doors 1¾ to 2½ inches thick and weighing approximately 300 pounds.



Richards-Wilcox Mfg. Co.

A Hanger for any Door that Slides

AURORA, ILLINOIS, U.S.A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit

Montreal · RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. · Winnipeg

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5 Slaves





Horsepower slaves have today replaced human slaves in doing the work of the world.

In every line of industry today good profits are only possible when skilled men are paid to do work they should do—the thinking and planning—and machines are provided for the drudgery.

With only one man to do the thinking, this sturdy, compact machine—the Master Woodworker—will perform the manual labor of 5 expert workmen.

This is not a guess, but is an accurate statement of fact—based on time studies made of jobs where the Master is used.

"Does the work of 5 men", "Saved its cost the first job", "Saves 30 per cent of my labor costs". These are typical statements from letters we are constantly receiving from users all over the country.

Don't hesitate to buy a Master, because it seems like an added expense. It will actually be no expense at all.

Just a small down payment—not more than one man's wages for four or five days and the Master is yours.

Then small monthly payments—and the Master will make these payments for you many times over each month.

Competition is becoming keener and keener in the building trade.

You can't hope to compete with other builders who are using modern machines and horsepower if you continue to use old fashioned man power, hand sawing and jointing.

Now is the time to buy a Master. Buy it this Fall. Use it in the shop. It's great for inside finishing.

MASTER WOODWORKER
MANUFACTURING COMPANY

612 Brush Street, Dept. A DETROIT, MICHIGAN

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Work Without Pay





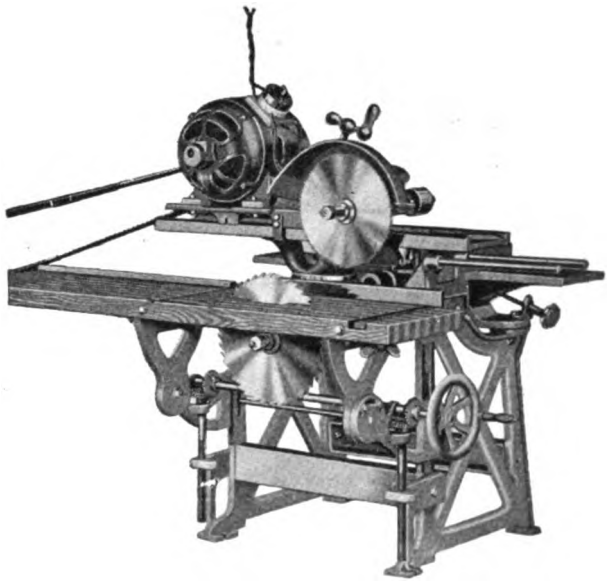


What The Master Will Do

It is 12 machines in one—the fastest and most accurate woodworker on the market. It crosscuts, rips, dadoes—does routing, planing, rabbeting, boring, ripping, grinding, stair housing, jointing, moulding, cross-cutting, tenoning, mitering, plowing and mortising.

Not a saw rig, but a complete woodworker. The saw travels at any angle and goes through the work the natural way. It can be transported from job to job in a Ford "pickup".

It will make every cut necessary for house building or inside finishing. Connectable to regular house lighting circuit. Can easily be transported from room to room. Works accurately—no vibration—work at all times visible to the operator. Sturdy and reliable. Will last a lifetime.



(Model illustrated is the No. 12. Also made in two larger sizes for job and mill work, and in one smaller size.)

MASTER WOODWORKER MANUFACTURING COMPANY
612 Brush Street, Dept. A Detroit, Michigan

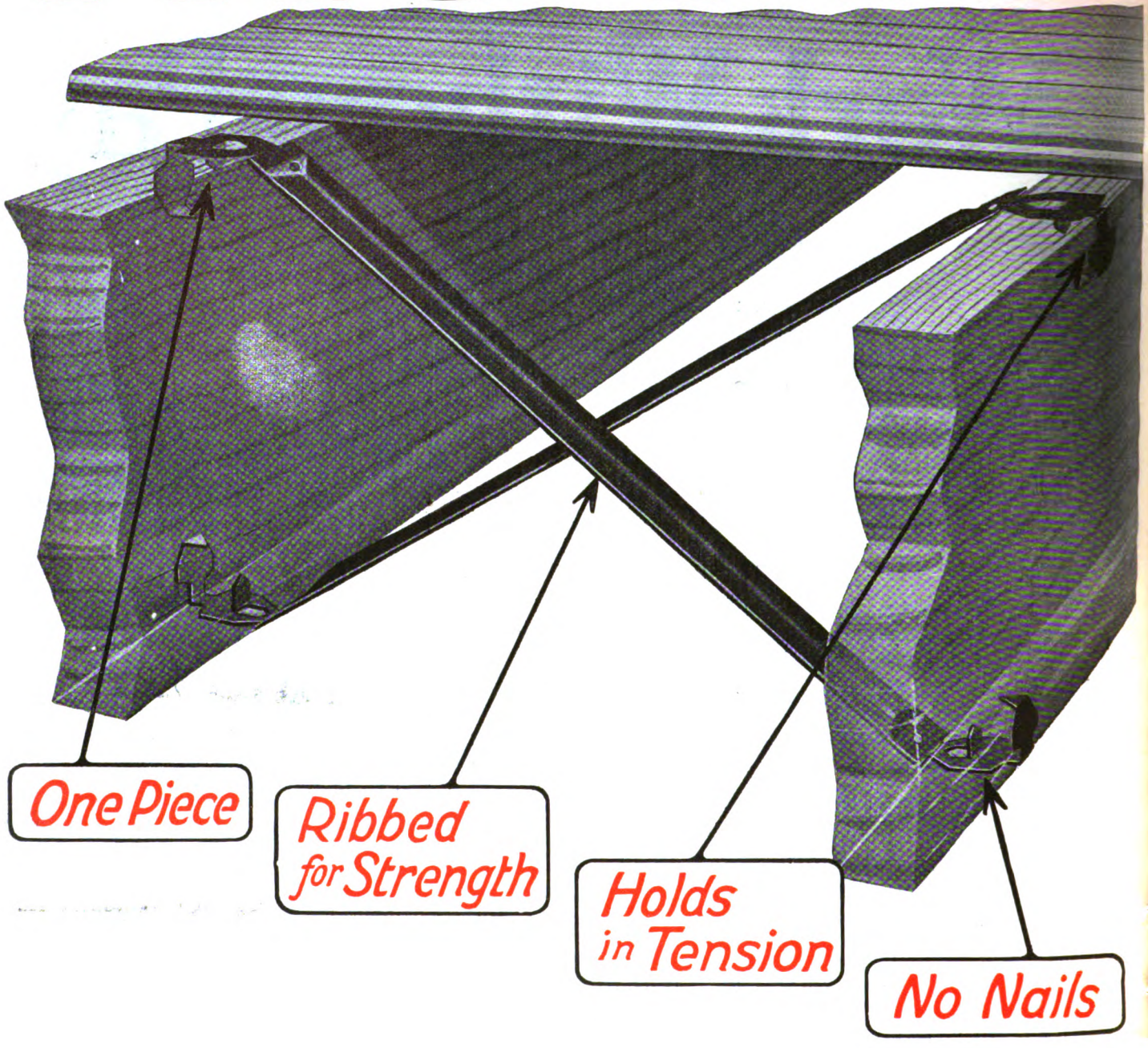
Send me your catalog of all Master Woodworker machines.

*Name*_____ *Address*_____

*City*_____ *State*_____

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TRU-TYE



BLAW-KNOX

BLAW-

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Steel Bridging



Why use wood when you can install Blaw-Knox Tru-Tye Steel Bridging Cheaper-Faster-Stronger-Neater

When you order Blaw-Knox Steel Bridging from your dealer you receive it in boxes of 100 all ready for use. Your carpenters can place 10 Tru-Tyes to one of wood which has to be cut and nailed, whereas Tru-Tyes are installed with a few blows from a hammer.

A carpenter in one trip carried up all bridging for a complete floor.

No Nails are used with Tru-Tye Bridging, as prongs are fashioned from the metal itself and driven into the joist. It simply cannot work loose.

A few minutes' time bridges a house framing that formerly took hours. On larger buildings the time and labor savings are proportionate.

Tru-Tye Steel Bridging holds in tension. It keeps the floors level. Houses are easier to sell and owners better satisfied when Tru-Tyes are used.

Samples of Blaw-Knox TRU-TYE STEEL Bridging will be sent to contractors, dealers, architects or carpenters, upon request. Inspection and trial of TRU-TYE Bridging will convince you of its merit.

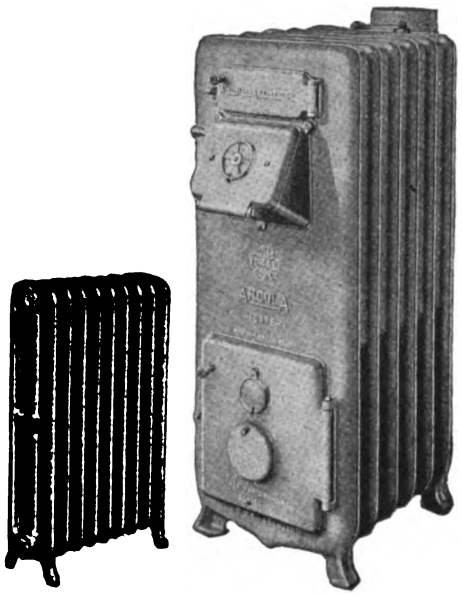
BLAW-KNOX COMPANY

629 Farmers Bank Bldg., Pittsburgh, Pa.

BLAW-KNOX

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RADIATOR WARMTH
for smaller homes



"RADIATOR WARMTH adds much more than its cost to the selling value of any home or building." So says one of the biggest men in the building business.

And his words are backed up by the experience of thousands of other builders.

IDEAL ARCOLA
for smaller homes with or without basement

For six years ARCOLA has been warming small homes, stores, shops, offices and other small buildings.

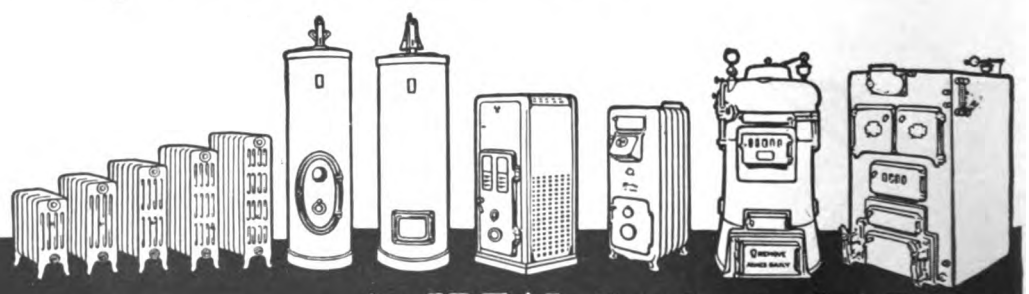
It has transformed hundreds of thousands of chilly houses and other buildings into places of cheery warmth and comfort.

Ideal ARCOLA comes in two models—the ARCOLA Parlor and the ARCOLA Heater.

The ARCOLA Parlor is equipped with a handsome French gray enamel jacket and with glass panels through which the fire shines. It is automatically regulated, and sends healthful hot water warmth to radiators in other rooms, besides warming the room in which it stands.

The ARCOLA Heater is unjacketed and its low cost makes it ideal for the more modest homes, where it provides warmth and comfort.





An IDEAL Product for Every

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AT MINIMUM COST
and other buildings

RADIATOR WARMTH is a real selling asset, no matter what kind of home or building you have to sell.

In the medium sized home or building ARCO Round Boilers have been the standard for more than twenty years.

IDEAL ARCO
Round Boiler

THE STANDARD ROUND BOILER OF AMERICA

for small, medium and larger size homes and other buildings

Two years ago a builder in Buffalo built twelve homes—all exactly alike—with one exception, the heating plants. In six he put ARCO Round Boilers and American Radiators. The rest, to save a small initial cost, were not equipped with radiator warmth.

In six months he sold all the radiator equipped houses. Today there are still three of the other houses unsold.

The experience is typical, and it is the reason why builders everywhere are installing IDEAL Boilers and AMERICAN Radiators.



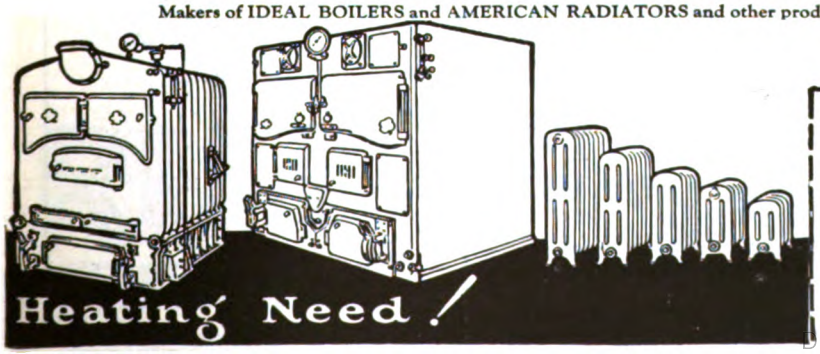
The Ideal Arco Boiler

This is the boiler that has set the standard of America for more than twenty years.

AMERICAN RADIATOR COMPANY

Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver, San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL BOILERS and AMERICAN RADIATORS and other products for heating, ventilating and refrigeration



AMERICAN RADIATOR COMPANY
Direct Mail Advertising Dept. 127
1807 Elmwood Ave., Buffalo, N.Y.

GENTLEMEN: Please send me your booklets on IDEAL ARCOLA and ARCO Round Boilers.

Name_____

Address_____

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— some detail of a job being figured — usually wanted most when not at hand—can often be acquired quickly by referring to the Selected List of Manufacturers' Literature that appears in every issue of BUILDING AGE and NATIONAL BUILDER. See pages 158, 160, 162, 165, 166, 168, 170, 172, 174, 176, 178 of this number.

These lists are comprehensive, and the carefully prepared catalogs and booklets of leading manufacturers contain specific information—exactly the sort you may need badly at times.

Consult the list, jot down the numbers wanted on the coupon, and the specified literature will be sent you promptly—free of charge.

Service Dept.

BUILDING AGE and NATIONAL BUILDER

243 West 39th Street **New York, N. Y.**

COUPON

BUILDING AGE AND NATIONAL BUILDER, 243 W. 39th St., New York.

Gentlemen: Please send me, without charge, unless otherwise noted, the booklets shown in your "Selected List of Manufacturers' Literature," the numbers of which I have noted below:

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

Name .....

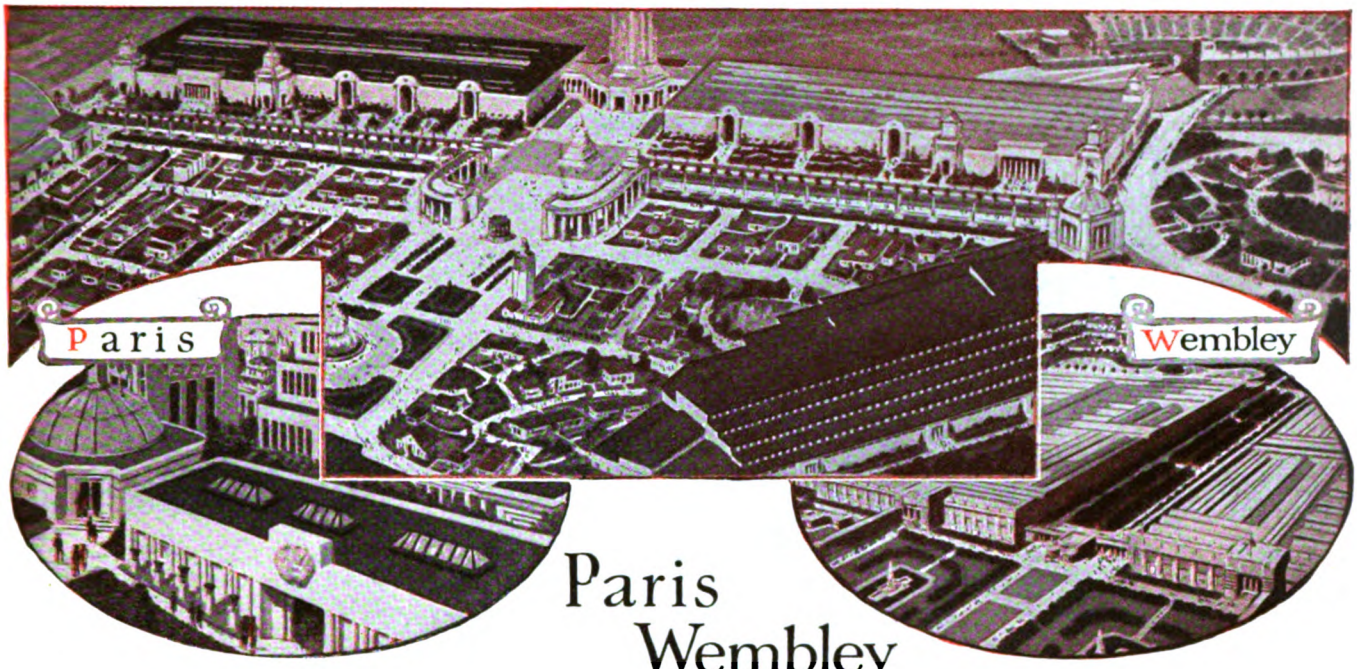
Address .....

Date .....

Occupation .....

11-26

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Paris
Wembley
. . . *and now*

The Sesqui-Centennial Ruberoid Roofs Cover Major Buildings

FOR over a generation the merits of Ruberoid Shingles and Roofings have received world-wide recognition.

Conclusive evidence of this recognition has been given by each of the last three great international expositions—Wembley, Paris, and now our own Sesqui-centennial at which the major buildings, housing treasures of almost countless worth, have been roofed with Ruberoid.

The general use of Ruberoid Products in all parts of the world is due not only to their superior qualities, but also to the fact that there is always a Ruberoid Product to meet a specified roofing need.

The Ruberoid Line includes seven different styles of asphalt shingles, in numerous two, three, and four-tone color effects. There are also five different grades of smooth surfaced and mineralized roll-roofings.

Near you is a lumber or building supply dealer who sells *genuine* Ruberoid Shingles and Roofings. Ask him about them or write us. The coupon below is for your convenience.

The RUBEROID Co.

Chicago **New York** **Boston**

RU-BER-OID
SHINGLES AND ROOFINGS

The RUBEROID Co. A.I.I.
95 Madison Ave., N. Y. C.

Gentlemen: Kindly send me the name of the nearest Ruberoid Dealer and information regarding the products checked below.

Ruberoid Strip-shingles
☐ Octagonal ☐ Square ☐ Hex-agonal

Ruberoid Individual-shingles
☐ Giants ☐ Standard ☐ Lock-down

Ruberoid Roll-roofing
☐ Slate-surfaced ☐ Smooth-surfaced

Name .....

Address .....

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PROGRESS

THE WORLDS MOST BEAUTIFUL DOOR

A VALUE NOT EQUALED BY ANY OTHER DOOR



The ORIGINAL PAINE Miracle Door

TRADE MARK REG. PAT. JULY 10, 1923

A Miracle of Strength and Beauty

PAINE LUMBER COMPANY, Ltd.

OSHKOSH, WISCONSIN.

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PAINE MIRACLE DOORS have been endorsed and specified by architects and welcomed by the entire building industry as the popular priced door of exclusive design. They are adapted to all types of buildings, including homes, apartments, hotels, hospitals and office buildings.

The possibilities of staining the Miracle Door and using it in combination with varied wall treatments are unlimited. Desired contrasts can easily be secured with the Miracle Door which adapts itself to any style of trim.

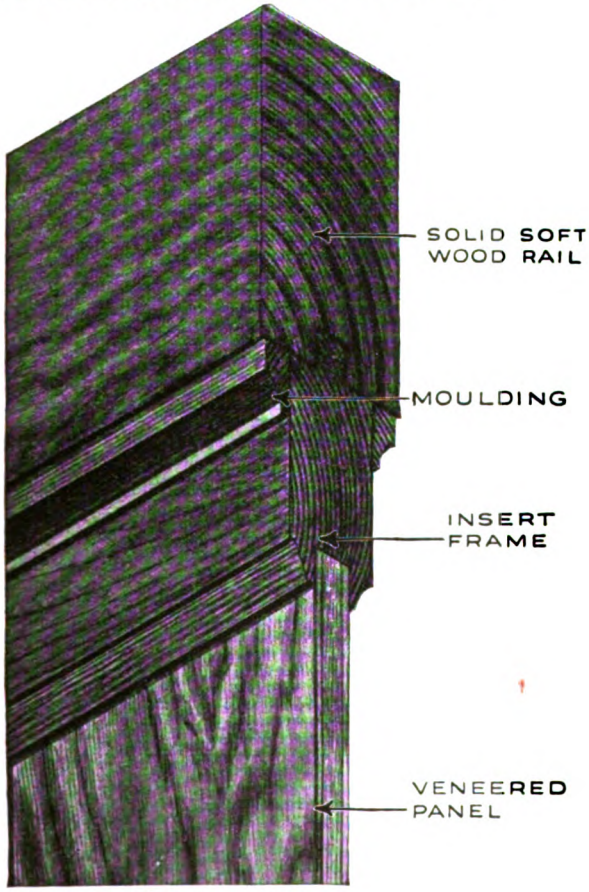
The Miracle Door is made possible by entirely new patented standards of precision in wood manufacture.

The Miracle Door is made in all woods.

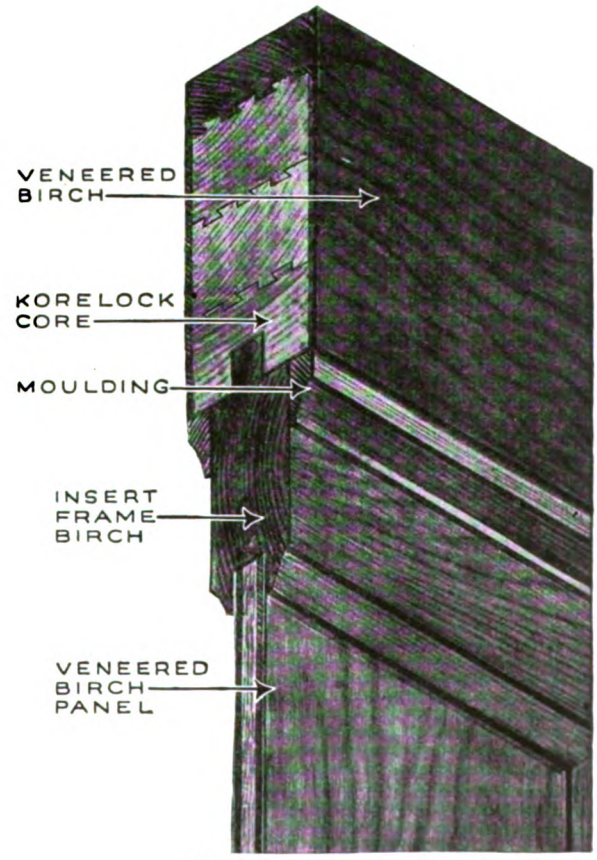
The Miracle Door is produced and guaranteed by an organization that operates from tree to finished product with facilities without a parallel in the woodworking industry.

Wholesale stocks of Miracle Doors are carried in over 100 cities. If your dealer does not carry Miracle Doors write us.

A 56-page catalog showing representative installations of Miracle Doors and giving numerous complete ideas in color for finishing Miracle Doors, together with the floors, walls and woodwork in connection, will be mailed you free upon request.



Miracle Solid Softwood Door



Miracle Hardwood Veneered Door

Demand the Genuine Miracle Door. Refuse Imitations.

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Paine Lumber Company, Ltd., Oshkosh, Wisconsin



PATENTED
March 1920
October 1925
April 1926

Premier Salesman of Houses

WHAT is your most powerful sales argument in selling the homes and apartments you build? Not the blank walls and bare floors of unfurnished rooms. Not details of construction or finish. Home buyers and prospective tenants are interested in none of these.

They *are* interested—eagerly and vitally interested in the conveniences you provide for their comfort and convenience. The convenience of electrical servants that save time, save steps and banish household drudgery for Mrs. Prospect. The convenience of modern plumbing and sanitary equipment that promotes health and happy living for all the family.

Modern plumbing with its snowy white lavatories and tubs, gleaming shower fixtures and shiny faucets creates a picture of attraction that whets desire and actually makes sales. Modern sanitary plumbing is an active, a powerful salesman of homes and apartments.

And quality brass goods—Republic Brass Goods—are the "servants of supply" in the plumbing installation—an investment that pays definite dividends in lower installation costs, more years of service and greater satisfaction to the user.

The REPUBLIC BRASS COMPANY · *Cleveland, Ohio*

Good Plumbing · Good Business · Republic Brass Goods

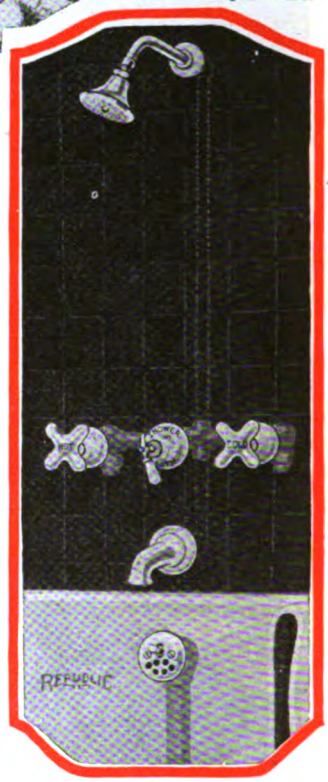
Canadian Distributor: The James Robertson Co., Toronto, Ont.; Montreal, Que.

Copyright 1925
Reg. U. S. Patent Office
February 9, 1926



This tag appears on every piece of Republic Brass Goods. It is the identifying mark of a modern plumber — a plumber who performs high class work and uses quality materials.

REPUBLIC
BRASS GOODS



The No. 1230-C Republic Two-Way Bath Fixture

combines bath and shower into one unit with positive control of water temperature.

The desired temperature of the water may be obtained through the spout of the tub and immediately turned into the shower. No icy cold shock. No steaming spray of scalding water—positive assurance of comfort when taking a shower.

A copy of a new book we have just published "Modern Conveniences" explains definitely how modern plumbing fixtures and quality brass goods help to insure a steady income from your building investment



THE REPUBLIC BRASS COMPANY
Cleveland, Ohio

Please send me a copy of your new book "Modern Conveniences."

Name.....

Address.....

City.....State.....

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ELSIE DE WOLFE

[FAMOUS INTERIOR DECORATOR]

Says ~ "Plain walls are the refuge of the artistically destitute"



ALL CHOSE WALLPAPER

ELSIE de Wolfe, Nancy McClelland and Gertrude Gheen Robinson, decorators, John Russell Pope and Frank J. Forster, architects, and Richard Bach of the Metropolitan Museum of Art recently agreed to select schemes of decoration, each taking the responsibility for one of six different interiors.

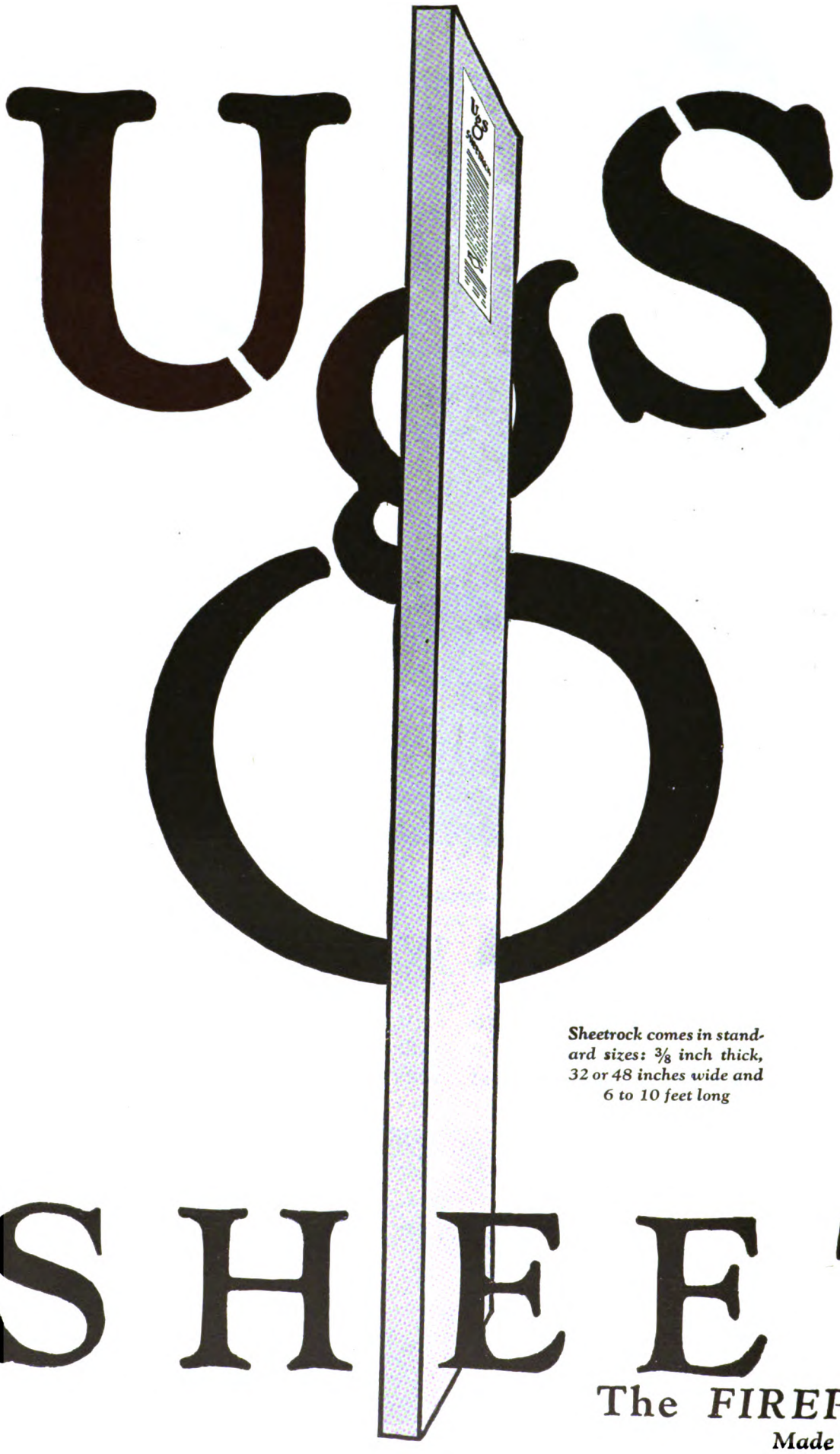
All chose wallpaper. Their reasons for their individual selections differed. But their agreement on wallpaper was unanimous. Miss de Wolfe's selection is shown here.



If you want to know their reasons for selecting wallpaper, send for a full set of beautiful color illustrations of the entire series of interiors approved by these great authorities. These illustrations will be sent to you together with a fascinating, illustrated booklet, "Wallpaper—Room By Room."

WALLPAPER MANUFACTURERS
ASSOCIATION *of the* UNITED STATES
461 Eighth Avenue New York, N. Y.

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Sheetrock comes in standard sizes: 3/8 inch thick, 32 or 48 inches wide and 6 to 10 feet long

SHEET

The *FIREPROOF*

Made by the United

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Be *sure* with SHEETROCK

Back of this pioneer plaster wallboard are all the resources of the world's largest producers of gypsum products.

And the sign of that downright goodness is branded on the back of every Sheetrock board.

Sheetrock is the *original* gypsum wallboard. *Tested by Time.*

It is the product of the inventors who first made possible rigid, smooth-surfaced and permanent walls at low cost.

From architect to householder, Sheetrock, the Fireproof Wallboard is *known* and trusted and respected for what it is—the pioneer, and at every stage of its development the finest wallboard made.

Dominant, colorful, big-space advertising has made Sheetrock almost a household word.

Why swim upstream?

Sheetrock is inspected and approved by the Underwriters' Laboratories, Inc., as an effective barrier to fire. Send the coupon for samples and full data on the Sheetrock patented Reinforced Joint System and other special information.

UNITED STATES GYPSUM COMPANY
General Offices: Dept. 3, 205 West Monroe Street, Chicago, Illinois

CLIP AND MAIL THIS COUPON TODAY!

U. S. Gypsum Company, Dept. 3, 205 West Monroe Street, Chicago

Please send me your data on new Sheetrock Reinforced Joint System and other special information on Sheetrock.

Name.....

.....

Address.....

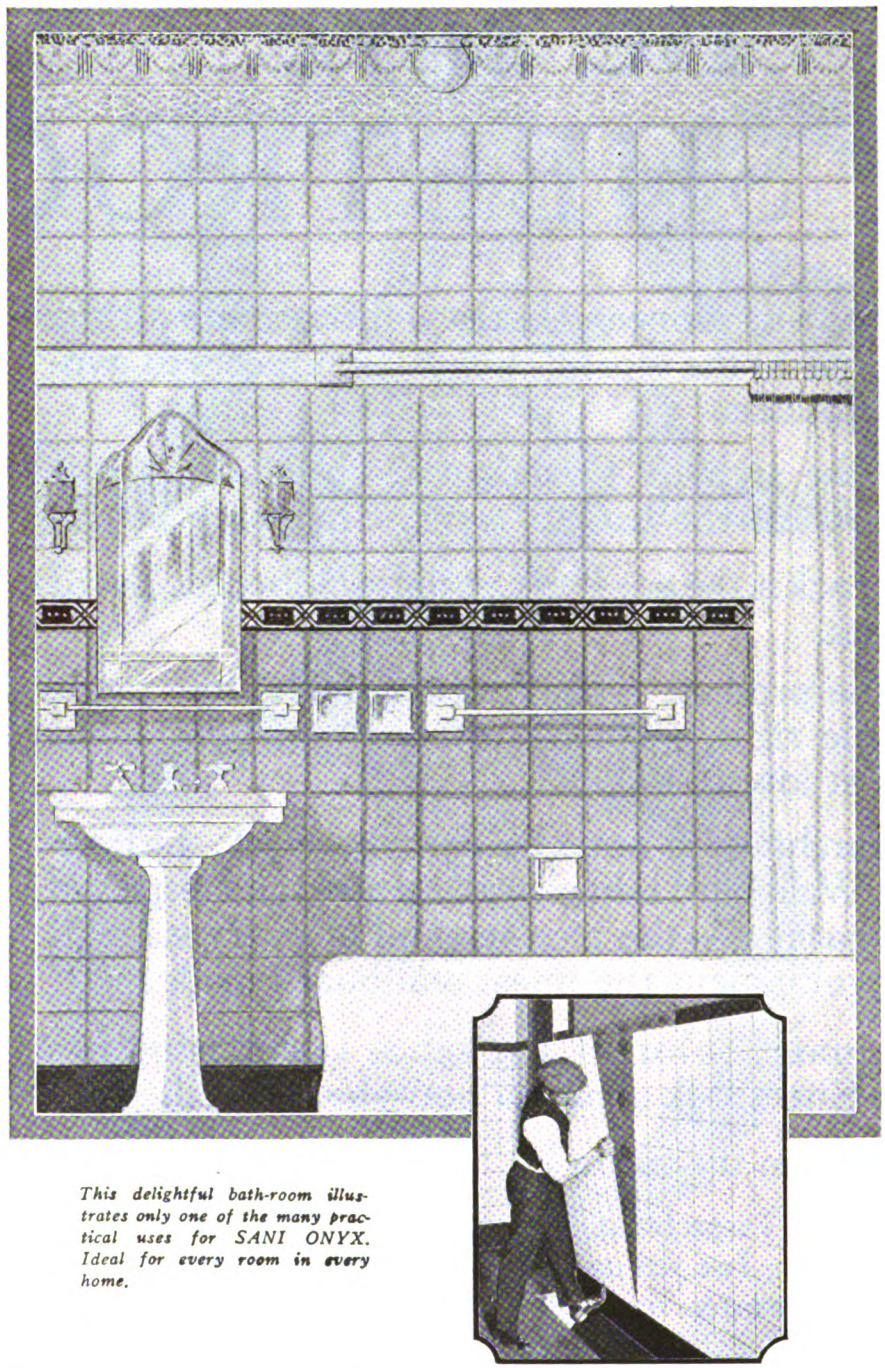
ROCK

Reg. U. S. Pat. Off.

WALLBOARD

States Gypsum Company

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This delightful bath-room illustrates only one of the many practical uses for SANI ONYX. Ideal for every room in every home.

TO the architect and builder seeking new opportunity to *permanently* beautify and strengthen walls, ceilings, wainscotings and floors, SANI ONYX affords a wealth of possibilities not found in any *natural* product of Nature's Laboratory.

Available in six standard colors—White, Blue, Ivory, Green, Gray and Black—this vitreous substance, fused under tremendous heat in great furnaces, is harder and more enduring than marble, plaster or tile and may be had in any special size, design or color to order. Six standard textures—Flame Glaze, Semi-Matte, Matte, Tapestry, Polychrome and Embossed—are carried in stock for immediate delivery.

Canadian Factory: Sani Products Co., Ltd., 155 Richmond St., West, Toronto. Distributors in principal cities throughout United States and Canada.

SANI ONYX
A VITREOUS MARBLE
A PRODUCT OF THE MARIETTA MANUFACTURING COMPANY

Send for a copy of our beautiful new book illustrating actual SANI ONYX installations in full color. Address, Sales Promotion Dept.

MARIETTA MANUFACTURING CO.

OFFICE AND WORKS: 85 BROOKSIDE, INDIANAPOLIS, INDIANA

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Spain, like Italy, translated its character clearly into its architecture and decoration. The daring freedom with which color was used—the broad architectural spaces achieved by plain plaster walls that formed the background—these are distinctly Spain. A mellow beauty of light and shade was frequently created by texture treatments of the plastered walls.







Announcement

Tiger Finish **has been selected, as the leader in its field, for the finish coat in the 360 Model Homes being built in 28 cities by the Home Owners' Service Institute.**

WHILE exterior beauty attracts the eye and draws the prospective purchaser, nevertheless ninety-nine per cent of all homes are sold on final judgment as to the layout and beauty of the interior.

This year builders are appreciating that this interior beauty is best obtained in natural lime surfaces—antique plastered walls, ceilings, cornices, mouldings, panels, arches or beams—either simple and inexpensive in design for the modest home, or ornate for the palatial residence.

The plasterers of this country are much more interested in jobs which gives to them a means of expressing their art.

The popularity of all-plastered interiors is best expressed in pure white *Tiger Finish*—noted for its uniformity, its high quality, its plasticity—the fact that it "spreads like warm butter".

Bear in mind that lime is the most sound absorbing interior finish—a great selling point.



The Kelley Island Lime & Transport Company

World's Largest Producer of Lime

including Tiger Finish, Tiger Mason's, Tiger Agricultural, Tiger Chemical, Tiger All-Purpose Hydrate in 10 lbs. packages, and High Calcium and Magnesium Lump Limes

Leader Building, Cleveland

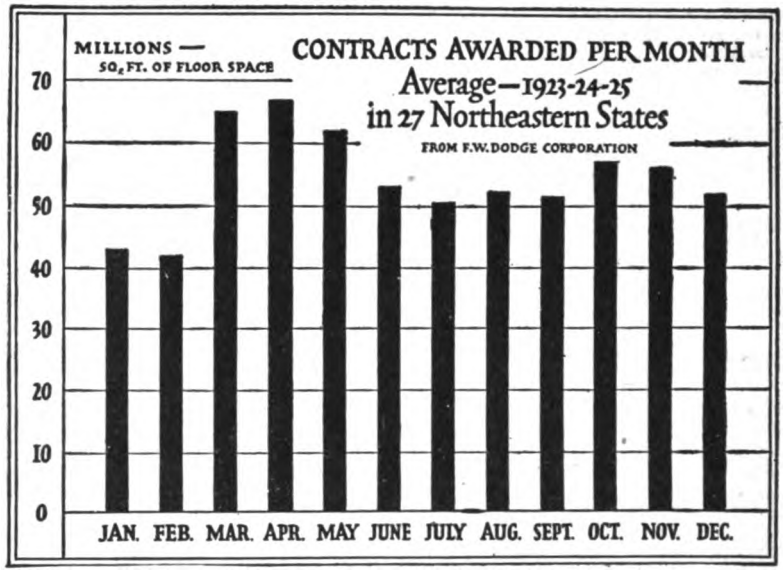
TIGER FINISH

"SPREADS LIKE WARM BUTTER"

REG. U.S. PATENT OFFICE

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Even in the north, construction work put under contract now continues in large volume throughout the year. In the dead of winter awards are two-thirds as great as at the spring peak. The high fall awards are strong evidence that winter construction pays, as they must largely represent work to be carried on through the cold months.



No Need to Wait Until Spring

BUILDING construction is now carried on throughout the winter as successfully as in any other season.

Think what the quicker occupancy of these winter-built structures means to their owners! If you need a new building, don't wait until spring. Start plans now for winter construction.

And use concrete for speed and economy. It will pay you.

Write nearest office listed below for booklets on "Winter Construction." There is no obligation

PORTLAND CEMENT ASSOCIATION

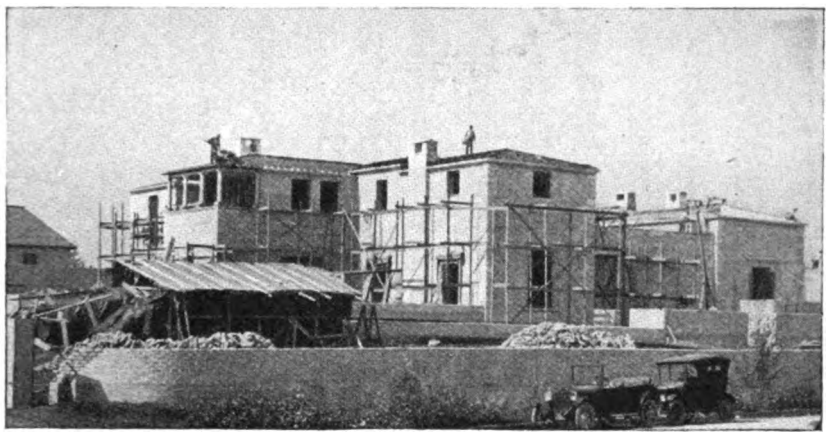
A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Denver	Lincoln, Nebr.	Oklahoma City	Salt Lake City
Birmingham	Des Moines	Los Angeles	Parkersburg	San Francisco
Boston	Detroit	Milwaukee	Philadelphia	Seattle
Chicago	Indianapolis	Minneapolis	Pittsburgh	St. Louis
Columbus	Jacksonville	Nashville	Portland, Oreg.	Vancouver, B. C.
Dallas	Kansas City	New Orleans	Richmond, Va.	Washington, D. C.
		New York		

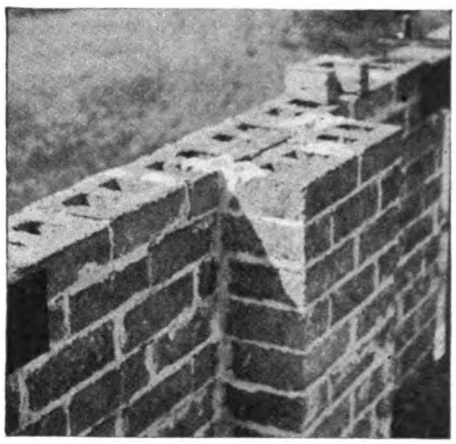
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Stone-Tile is an entirely different type of masonry unit

It makes masonry construction as economical as good frame stucco



Home of I. Eisner, under construction in Los Angeles. Architect, Gordon B. Kaufman. Contractor, John Mayer.



A close-up of Stone-Tile wall in process of construction

Why is Stone-Tile different? Stone-Tile is a different type of masonry unit because it is made by a different process—a wet-mix process, originated and patented by us. The texture is different and the shape of the unit and thickness of the webs and shells make Stone-Tile a real load-bearing unit. For these reasons, Stone-Tile should not be compared to the ordinary hollow tile or cement block.

Why is Stone-Tile so popular? Architects are choosing Stone-Tile because it has an unusual decorative quality and flexibility in conforming to architectural detail. On many jobs, distinctive effects are achieved by letting it remain unfaced or merely covering with a thin brush coat of tint or white.

Contractors all over the country are turning to Stone-Tile because they can build any type of structure, residential or industrial, with it successfully. It is easy to handle and requires about half as much mortar as solid masonry. Masons and bricklayers "take" to Stone-Tile readily. There is no better base for stucco or plaster. It is durable and can withstand tremendous pressure and weight. It resists moisture. It does not break easily in shipping or unloading. Its center web makes handling easy.

Home and building owners approve Stone-Tile because it gives them a building of masonry, in most localities, at the same cost as good frame stucco. It is everlasting and fire-proof. Recent reports of fire tests will amaze you. It regulates the temperature in the house. Ideal for all climates and all types of buildings.

Where you can get Stone-Tile

Stone-Tile is manufactured by reputable firms licensed by us. You can procure it in all parts of the country. If Stone-Tile is not made in your immediate vicinity, let us tell you how you can manufacture it under a contract which will be most profitable to you. Mail coupon today for booklet and information as to how you can establish a Stone-Tile plant in your vicinity. We will also tell you how our great national organization helps you sell Stone-Tile. Write our nearest office as indicated on the coupon. National Stone-Tile Corporation, 625 Market St., San Francisco, Calif.; 15 East 40th St., New York City.

NATIONAL STONE-TILE CORPORATION
625 Market St., San Francisco, Cal., *or*
15 East 40th St., New York City

I am interested in the construction advantages of Stone-Tile. Please send me booklet.

Name.....

City.....

State.....

STONE-TILE

STONE-TILE IS MADE IN UNITS OF A UNIFORM SIZED FACE, 8½" x 12", AND VARIOUS WIDTHS (4", 6" AND 8"). THE CENTER WEB MAKES HANDLING EASY

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This man has become a mighty influence for the builder



IN the building of permanent walls today, the plasterer has become a most important factor. He favors Banner Finish because of its unequalled smooth-spreading qualities; because it gives to the finished wall that fineness of appearance that every true craftsman strives for; because it enables him to cover larger wall areas in less time and without undue effort; because it is of just the right consistency to permit of a wide range of treatments for the finishing of period walls; and because it stays, right where he puts it, for ages.

When you specify a hydrated lime finish, for better walls, think of the fellows who are eager to carry out your ideals—the fellows who will because they can—if it's Banner.



Banner

Easy to Spread Hard to Beat

NATIONAL MORTAR & SUPPLY CO., *Pittsburgh, Pa.*

The Best Building Supply Dealers Everywhere Stock Banner

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White Pine Preserves Andersen Accuracy

Mr. W. E. Strietzel built this home in Shaker Heights, Cleveland, with the comfort of his client at heart. When it came to window frames he chose Andersen.

He realized the frames must be of enduring wood to last as long as this well built home. The Genuine White Pine used for Andersen Frames solved this.

Window Frames greatly affect the home owner's comfort. Weather-tight construction prevents cold winter drafts and ugly moisture stains on the wall paper. The Andersen Frame has many special features keeping out air and water. Most lumber dealers carry this frame.

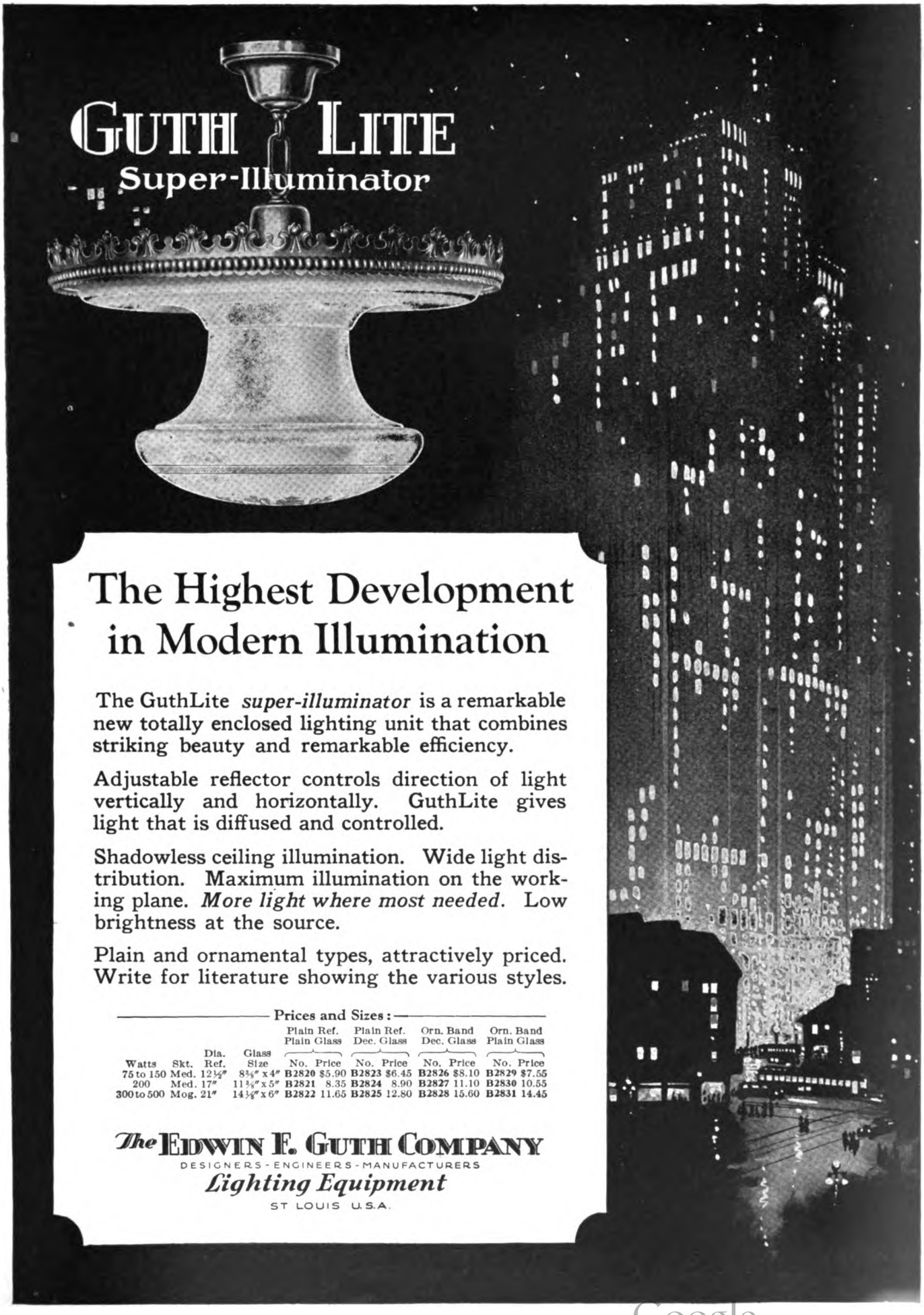
Let us send you the new catalog describing these features. When writing state whether you are an architect, builder or dealer.

Andersen Lumber Company
Bayport, Minnesota

Andersen
FRAMES

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The Highest Development in Modern Illumination

The GuthLite *super-illuminator* is a remarkable new totally enclosed lighting unit that combines striking beauty and remarkable efficiency.

Adjustable reflector controls direction of light vertically and horizontally. GuthLite gives light that is diffused and controlled.

Shadowless ceiling illumination. Wide light distribution. Maximum illumination on the working plane. *More light where most needed.* Low brightness at the source.

Plain and ornamental types, attractively priced. Write for literature showing the various styles.

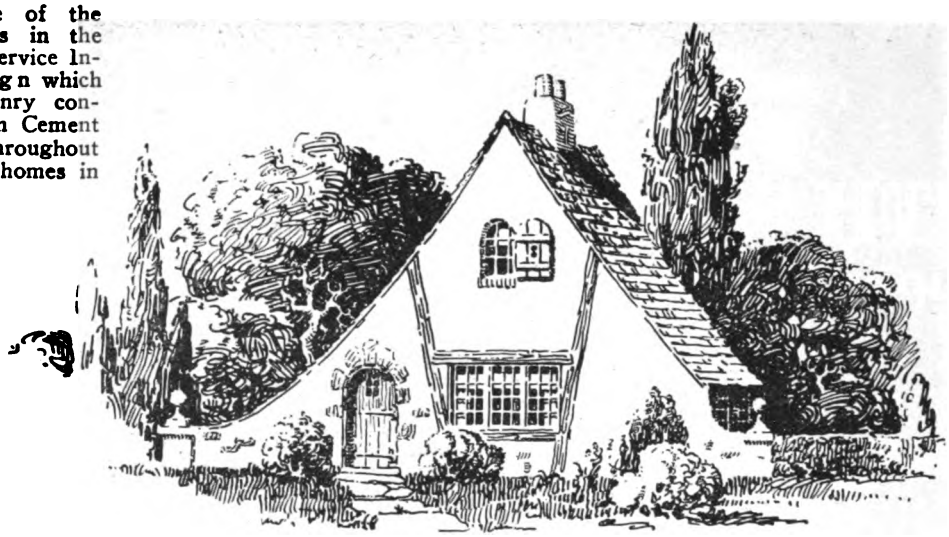
Prices and Sizes:

Watts	Skt.	Dia. Ref.	Glass Size	Plain Ref. Plain Glass No.	Price	Plain Ref. Dec. Glass No.	Price	Orn. Band Dec. Glass No.	Price	Orn. Band Plain Glass No.	Price
75 to 150	Med.	12½″	8⅜″ x 4″	B2820	$5.90	B2823	$6.45	B2826	$8.10	B2829	$7.55
200	Med.	17″	11⅛″ x 5″	B2821	8.35	B2824	8.90	B2827	11.10	B2830	10.55
300 to 500	Mog.	21″	14⅛″ x 6″	B2822	11.65	B2825	12.80	B2828	15.60	B2831	14.45

The EDWIN F. GUTH COMPANY
DESIGNERS - ENGINEERS - MANUFACTURERS
Lighting Equipment
ST LOUIS U.S.A.

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THIS is one of the many homes in the Home Owners' Service Institute Campaign which will be of masonry construction. Lehigh Cement is to be used throughout as in all of the homes in this program.



Homes that bring joy to the owner

SAY to some people, "you should own your home," and they'll smile sadly and tell you they do. Ask the reason for the lack of enthusiasm and the answer is usually, "we never realized the cost of repainting, repairs and replacements."

But—talk to the same people about a home like the one shown above. Tell them that masonry construction means practically no upkeep costs. Will they listen? They will, and with keen interest.

Twelve of the first thirty-six homes in the Home Owners' Service Institute Campaign, described in the accompanying pages, will be of this permanent, repair-free construction.

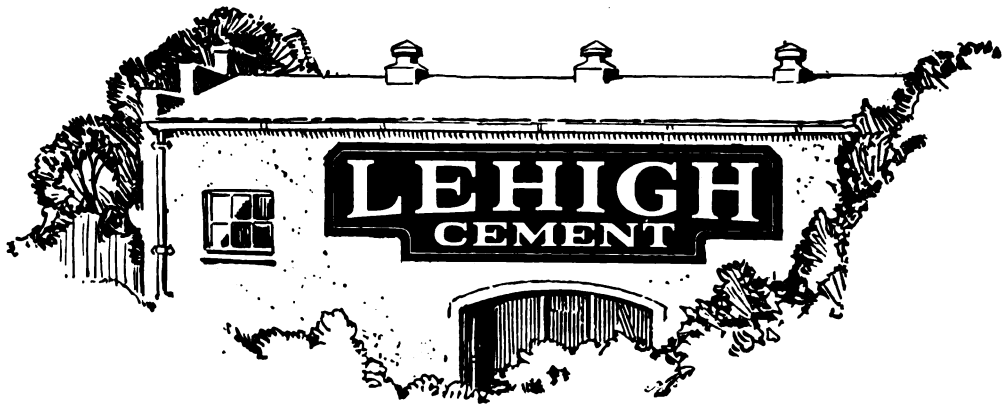
When you consider your next home think of concrete masonry construction and how the buyer of such a home will look upon his investment in later years.

He'll be satisfied. He'll be your friend forever.

LEHIGH PORTLAND CEMENT COMPANY

Allentown, Pa. Birmingham, Ala. Chicago, Ill. Spokane, Wash. New York, N. Y.

Other offices in principal cities throughout the United States



Buy from the dealer who displays the Blue-and-White Lehigh Sign to be sure of prompt deliveries of this uniform, quality cement.

20 MILLS FROM COAST TO COAST

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The Seneca Hotel
Chicago

D. H. Burnham & Co.
Architects

Paschen Bros.
General Contractors

Collins, Murphy & Jackson, Inc.
Owners and Operators



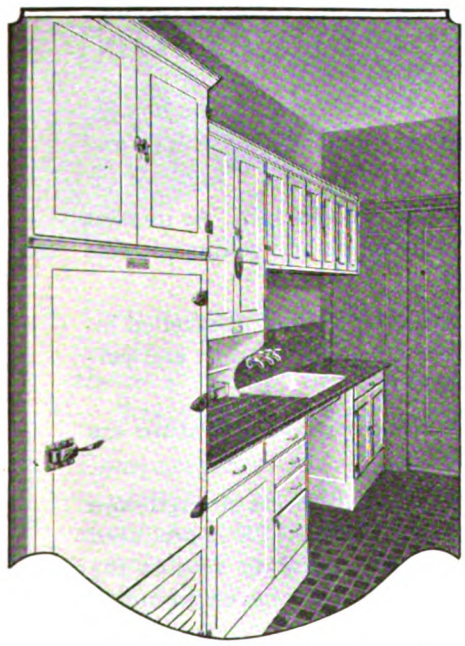
ARCHITECTS AND BUILDERS

The new line of Napanee Kitchen Units—dish cupboards, broom closets, top cupboards, refrigerators, and kitchen cabinets with exclusive "Time-saver" Table—is being widely accepted.

Manufacturers' Agents

There are still a few opportunities to take over the Napanee representation in very desirable localities. Write for information.

170 Napanee Equipped Kitchens in the Seneca Hotel



The 16-story Seneca, one of Chicago's newest and most modern residential hotels, is de luxe equipped throughout.

It was therefore only logical that the equipment selected for the Seneca kitchens should have been Napanee—recognized by architects and builders as the ultimate in kitchen utility and handsome appearance.

Mail the coupon today for complete catalog.

COPPES BROS. & ZOOK, Nappanee, Ind.
Builders for 50 years of the finest kitchen cabinets

COPPES BROS. & ZOOK, Nappanee, Indiana. BA11

Gentlemen: Please send me your handsomely illustrated complete catalog of Napanee Kitchen Units and Kitchen Cabinets, including the "Time-saver" Table.

☐ Builder ☐ Architect ☐ Home Owner

Name .....

Address 73

NAPANEE
DUTCH KITCHENET

Built Like Fine Furniture

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you can recommend this rigid INSULATION

MASONITE is the new ALL-WOOD Structural Insulation which architects and contractors are recommending for permanence, for insulation comfort, for sound-deadening.

It lives up to everything we claim for it because it is ALL-WOOD, not a substitute for natural lumber.

You don't have to hesitate about insulation any longer. The *practical* nature of MASONITE is beyond dispute.

Masonite
MANUFACTURED LUMBER FOR
STRUCTURAL INSULATION

MASONITE is ideal sheathing. It comes in flat, rigid boards, 4 feet wide in standard lengths, replacing sheathing and building paper.

MASONITE as a plaster base, eliminates lath. As interior finish, it is ready for decoration. In floors and ceilings, it acts as a sound-deadener.

Wherever you use it, MASONITE provides unexcelled insulation. It adds to the structural strength, comfort and permanent value of any building.

A sample of MASONITE and descriptive literature are ready to mail to you. Send for them.

Examine the product, its uniform texture, its strength and rigidity, its surfaces. Find out how MASONITE is produced by a new process which removes the grain, yet retains the length and strength of the original fibres. Not even a binding agent is added to the original wood.

Learn of the prominent lumbermen who are behind MASONITE, and how it may be obtained. We can make immediate shipments in any quantity. NO WAITING.

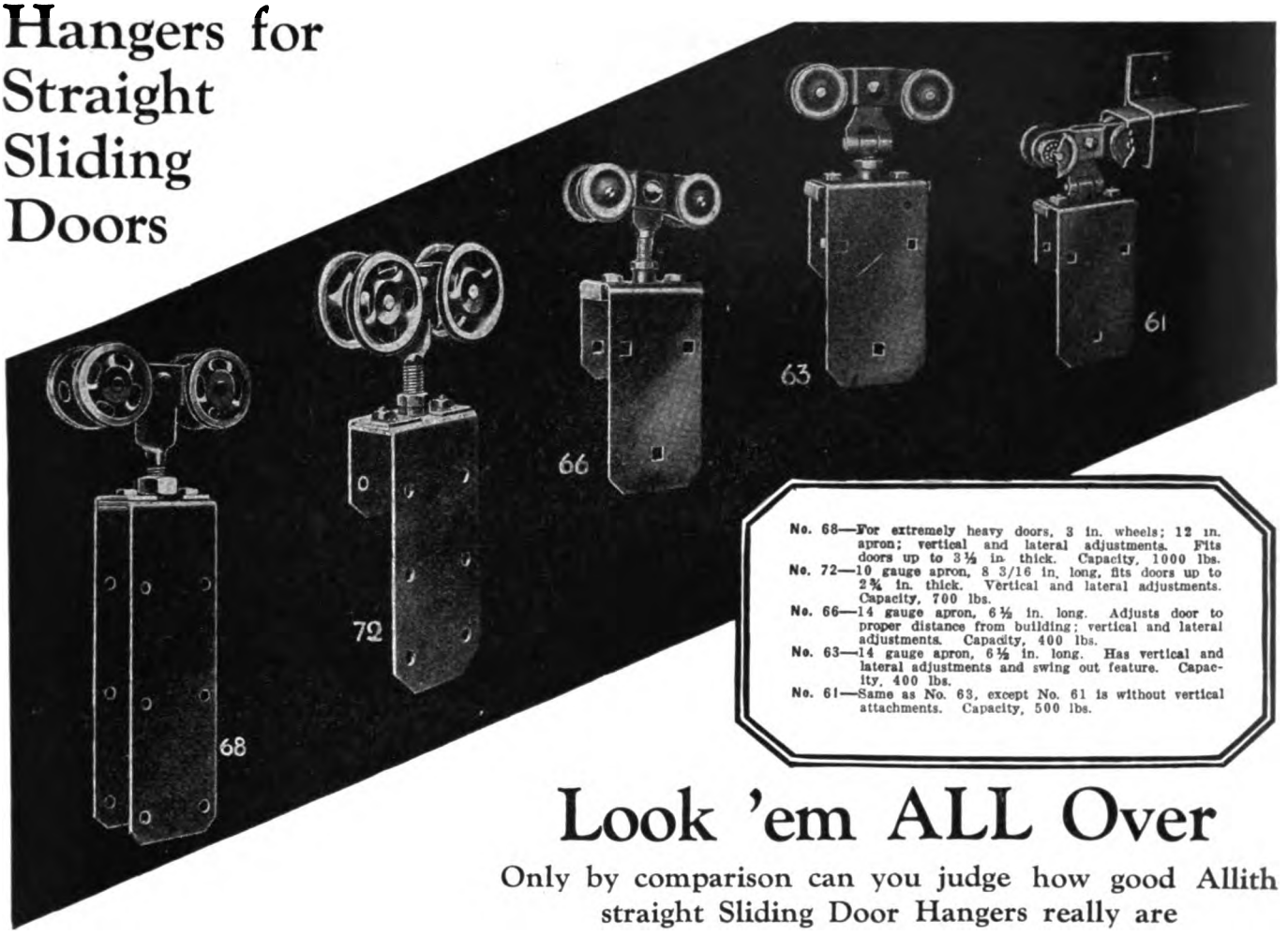
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Dept. 211 111 W. Washington St.
CHICAGO, ILL.

Send for samples and literature Today!

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Allith-Prouty

Hangers for Straight Sliding Doors



No. 68—For extremely heavy doors, 3 in. wheels; 12 in. apron; vertical and lateral adjustments. Fits doors up to 3½ in. thick. Capacity, 1000 lbs.
No. 72—10 gauge apron, 8 3/16 in. long, fits doors up to 2¾ in. thick. Vertical and lateral adjustments. Capacity, 700 lbs.
No. 66—14 gauge apron, 6½ in. long. Adjusts door to proper distance from building; vertical and lateral adjustments. Capacity, 400 lbs.
No. 63—14 gauge apron, 6½ in. long. Has vertical and lateral adjustments and swing out feature. Capacity, 400 lbs.
No. 61—Same as No. 63, except No. 61 is without vertical attachments. Capacity, 500 lbs.

Look 'em ALL Over

Only by comparison can you judge how good Allith straight Sliding Door Hangers really are

Then compare the price. But when you compare the price be sure, too, to compare the quality—for quality produces economy—cheapness produces extravagance.

Compare the can't-jam wheels with their hardened steel axles; the extra long and extra heavy, adjustable door plates; the frames and pendents made from certified malleable that exceeds 50,000 pounds per square inch in tensile strength, 10% in two inches in elongation and 35,000 pounds per square inch in yield point.

Look 'em all over. Then remember that Allith Hangers have back of them more than 25 years of honest effort and we'll leave our future progress to your good judgment of hanger hardware.

Catalog No. 95 should be on the desk of every architect, contractor and builder. Write for it on your letterhead.

ALLITH-PROUTY COMPANY

Manufacturers of

Garage Door Hardware
Fire Door Hardware

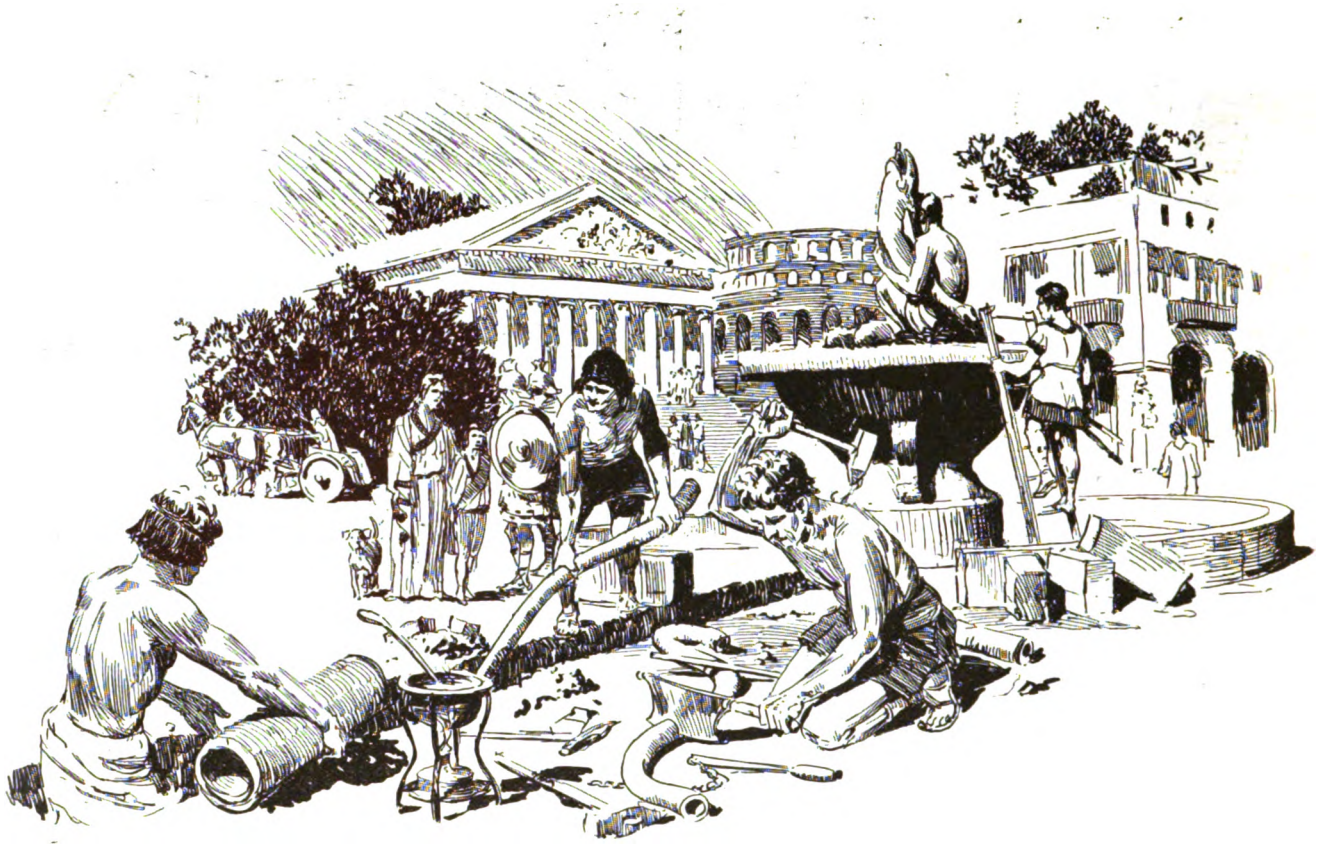
Spring Hinges
Overhead Carriers

Door Hangers
Rolling Ladders

DANVILLE, ILLINOIS

Manufacturers of the finest line of Garage Door Hardware

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Public Plumbing In Populous Rome

HOW "modern" ancient Rome was, in many ways, is a constantly surprising fact. The roads and aqueducts she built 2,000 years ago are still in use.

The splendor of Old Rome, however, is best typified by the fact that in the great public baths, where all the population could go for a small sum, even the faucets were silver.

Building contractors would be interested in some of the articles found in the ruins of ancient mansions which are surprisingly similar to those in use today. Four-branch fittings or crosses, brass stop cocks, wipe joints and bronze bath tubs are numbered among such articles. Unknown, however, were pipes of seamless brass. Lead, terra cotta and stone pipe and fittings did not afford the benefits of the brass pipe, found even in simple homes today. Bridgeport Plumrite pipe, together with Bridgeport tubular plumbing goods, form a combination that provides luxury surpassing the utmost in richness and majesty of ancient Rome's most exclusive aristocracy.

Booklet on Brass Pipe and Piping of today gladly sent on request.

One in a series of advertisements outlining the early development of plumbing ideas. A complete folio of this History of plumbing will be sent on request.

"Bridgeport" BRASS TRADE CO. MARK
Plumrite
WE MAKE
Ledrite Brass Rod
Phono-Electric Contact Wire
Plumrite Brass Pipe
Phono-Hi-Strength Wire
Tubular Plumbing Goods
Condenser Tubes-Sugar Tubes
Brass, Bronze and Copper Sheets
Brass, Bronze and Copper Tubes
Auto Bicycle and Pressure Pumps
Auto Accessories-Stampings
Engravers' Copper-Specialties
Screw Machine Products
Pressed or Drawn Products
Oil and Grease Guns

Bridgeport Brass Company
BRIDGEPORT - CONNECTICUT
NEW YORK PHILADELPHIA CHICAGO CLEVELAND DETROIT



Electric Furnace Brass

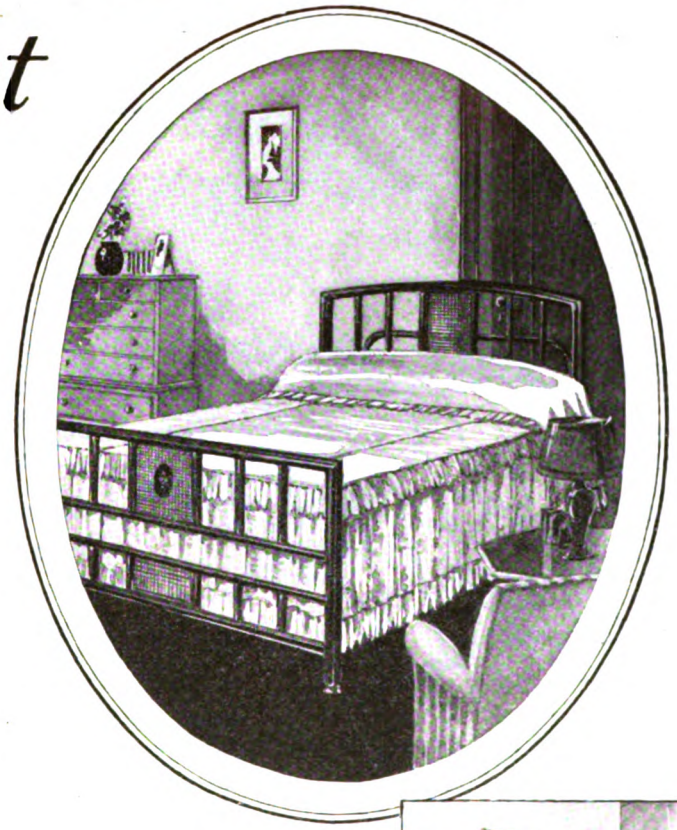
Bridgeport Plumrite

Member Copper and Brass Research Association and Trade Extension Bureau

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When DOLLARS and DESIRES Meet



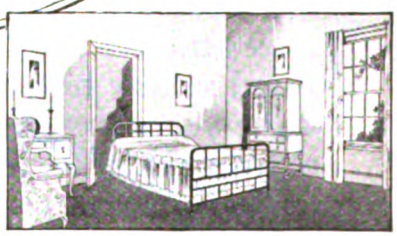
The desired standard of living used to conflict with the dollars available for rent or for home ownership. The Murphy In-a-Dor Bed reconciled dollars and desires in family hotels and apartment houses and now its effect is extending to dwellings.

A spacious, luxurious living room—with a Murphy In-a-Dor Bed—becomes a comfortable, natural sleeping chamber. The play room of day time becomes the children's bed room; the sun porch, a delightful open air sleeping place.

Murphy In-a-Dor Beds expand both the day time and night time space of apartment or home. They reduce the cost of building, lower the upkeep and heating expense, and do away with much of the work of housekeeping. They often make possible the desired standard of living.

Behind any standard door leading out of a room there may be a comfortable full sized Murphy In-a-Dor Bed, with no effect at all upon the appearance of the room or its furnishings. The closet in which it stands is usable at all times. The Murphy pivots easily through its door and, while being raised or lowered, it is kept in easy control by a spring balance of special principle.





Have complete information about Murphy In-a-Dor Beds. Four standard sizes. Designs to fit any surroundings. Durable as the building they furnish. Murphy Co-operative Service to help you. Write, please, to the office nearest you.

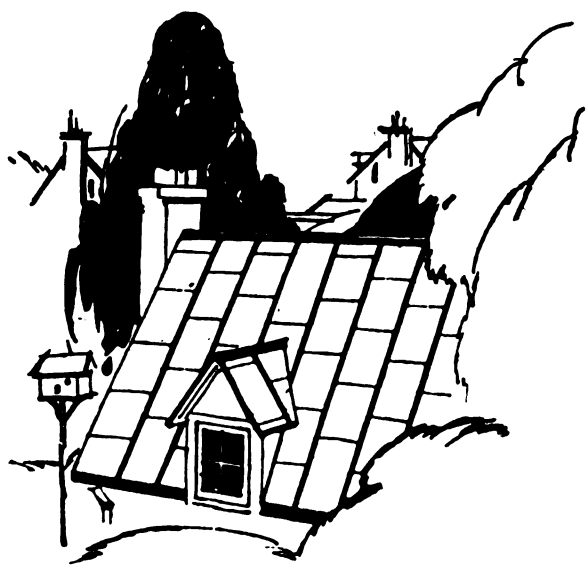
The Murphy In-a-Dor Bed

MURPHY DOOR BED COMPANY

New York City	19 W. 44th St.	St. Petersburg, Fla.	225 Second Ave. S.	Kansas City, Mo.	1114 Grand Ave.
Chicago, Ill.	22 W. Monroe St.	Miami, Fla.	234 Columbia Bldg.	Dallas, Tex.	1919 Pacific Ave.
Atlanta, Ga.	33 Luckie St.	Tampa, Fla.	220 Warner Bldg.	El Paso, Tex.	Neff-Stiles Bldg.
Seattle, Wash.	Terminal Sales Bldg.	St. Louis, Mo.	315 N. 10th St.	Houston, Tex.	2301 Main St.
San Francisco, Calif.	Crocker Bldg.	Detroit, Mich.	7th Floor Kresge Bldg.	New Orleans, La.	319 Dryades St.
Los Angeles, Calif.	1807 S. Main St.	Birmingham, Ala.	513 N. 21st St.	Ottawa, Canada	205 O'Connor St.
Denver, Colo.	1534 Blake St.	Cleveland, O.	1140-42 Hanna Bldg.	Montreal	698 St. Catherine St., West

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On the strength of its 35 Year Record for Durability—



THE reputation of Wheeling Roofing Ternes for permanence and trouble-free service, has gained steady headway in the thirty-five years this product has been on the market. Experience in every part of the country has established for all time, the safety and economy of this fire-proof roofing.

Numbered among those who use and recommend Wheeling Roofing Ternes, are many of the most prosperous sheet metal shops, contractors and architects. They know that Wheeling Roofing Ternes are better today than ever before because they are made of Ohio Metal (Open Hearth Copper Alloy) heavily coated with new tin and new lead by the Wheeling *Hand Dipping* process.

Judge this proven product in the same light in which your customers judge your reputation for service. Specify Wheeling—with the 35 year record for durability.

Wheeling Corrugating Company, Wheeling, W. Va.

W Wheeling

Wheeling

ROOFING TERNES

NEW YORK PHILADELPHIA CHICAGO MINNEAPOLIS
ST. LOUIS KANSAS CITY CHATTANOOGA RICHMOND

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Without accounting accuracy *speed is valueless*

DO you want a speedy accounting system if it is inaccurate? Or an accurate one if it is slow? No accounting system can run smoothly and economically unless both these factors are present.

That is why companies in over 400 lines of business are fast turning to Elliott-Fisher equipment. Elliott-Fisher combines speed and accuracy. It is speedy because the flat writing surface allows it to do several jobs in one operation. It is accurate because it is self-checking—errors are automatically revealed as soon as they are made.

Here is what Yerks & Co., a builders' supply company, says about Elliott-Fisher:

> "The outstanding features that appeal to us are the speed and accuracy of operation. The control positively checks the accuracy of the various processes, and operating errors are corrected in minimum time."

Because it does better work at lower cost, Elliott-Fisher is handling the accounting work and office detail for more and more building and contracting companies each year. It will pay you to investigate the possibilities of an Elliott-Fisher installation in your office.

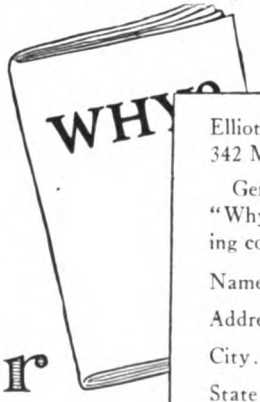
We will send you an interesting booklet and further information if you will mail the coupon below.



The Elliott-Fisher machine shown above handles Yerks & Co.'s accounting both speedily and accurately. Write us for details.

Service and Supplies are second only in importance to machines.
You can depend absolutely on E-F Service and EFCO Supplies.

NEW . . . *The Automatic Electric*
To the mechanically perfect Elliott-Fisher machine has been added—electricity. All the exclusive Elliott-Fisher features have been retained—power now does what hands once did. *Just Write*—Elliott-Fisher does the rest—*Just Right*.



Elliott-Fisher Company
342 Madison Ave., New York City

Gentlemen: Please send me a copy of your booklet "Why?" I expect to discover how I can cut my accounting costs.

Name.....
Address.....
City.....
State.....

Elliott - Fisher

AUTOMATIC ELECTRIC



ACCOUNTING MACHINES *with the* FLAT WRITING SURFACE

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SISALKRAFT

Reg. U. S. Pat. Office

— the 20th Century Building Paper

Because It Is ECONOMICAL and DURABLE

2 Layers of Java Sisal Fibre make it.

2 Layers of High Grade Asphaltum make it.

2 Layers of No. 1 Kraft Paper outside make it.

TOUGH

WATERPROOF

CLEAN

UNEQUALLED for sheathing under stucco, brick veneer, shingles, clapboards; under floors prevents dust and moisture passing through.

PROTECTS buildings, partitions, temporary work, stock piles, etc., during construction—and can be used again for sheathing.

Stocked in rolls 36, 40, 48, 54, 60 inches wide and containing 500, 900, 1000, 1350, 1500 Sq. Ft. Respectively

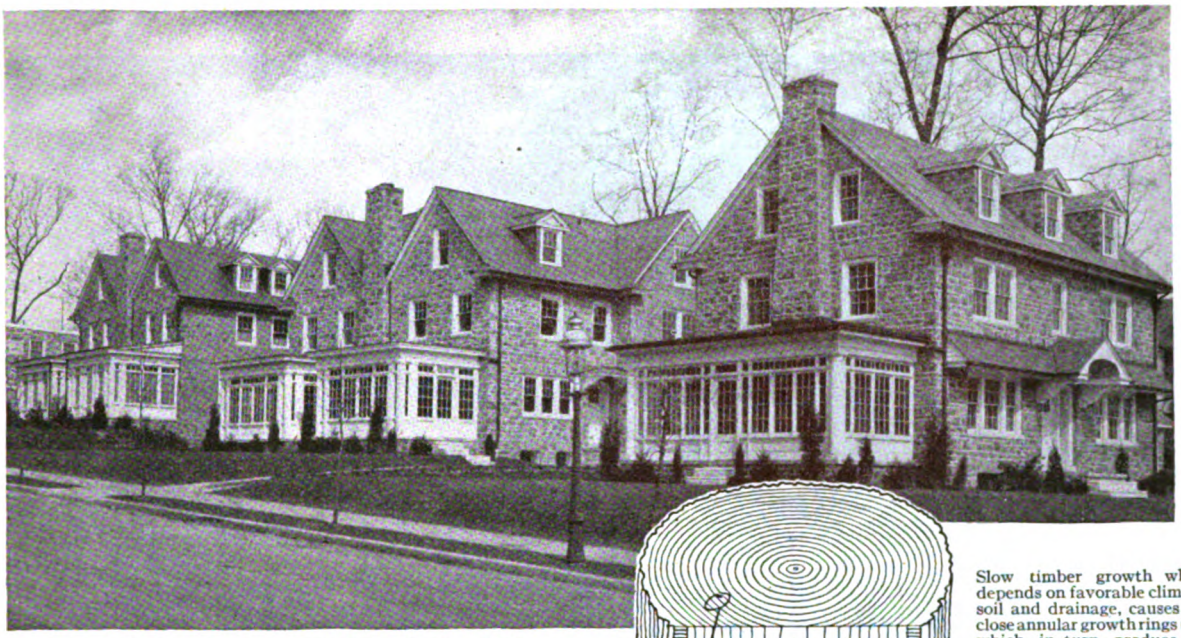
Weight Approximately 45 lbs. per 100 Sq. Yds.

Sold in New England under name of FIBREEN

American Reenforced Paper Company

ATTLEBORO, MASSACHUSETTS

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Model homes designed and built by the Robert Killough Organization, Phila., Pa.

"Helps the sale of our houses"

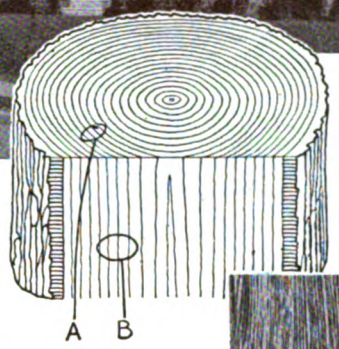
— Robert Killough, one of America's leading investment builders.

"NOTHING is of greater importance," declares Mr. Robert Killough, of Philadelphia, Pa., "in the construction of fine homes than the use of good flooring. It must have beauty as well as durability to afford the greatest satisfaction and delight, and I am glad to say that Ritter Appalachian Highland Oak Flooring meets our standards better than any other brand we have tried. It also helps the sale of our houses."

Robert Killough is one of the largest users of Ritter Appalachian Highland Oak Flooring. He has used it long enough and has floored a sufficient number of fine homes with it, to know from actual experience that it makes floors of matchless elegance and refinement, and that homes floored with it can be sold with a minimum of sales effort. In addition to these advantages, its use effects substantial savings in time, labor and material in laying, nailing and finishing.

Let us give you complete facts to show how you too can profit by using Ritter Appalachian Highland Oak Flooring in the building of new homes and in the remodeling of old ones. We will write or send our representative.

W. M. RITTER LUMBER COMPANY
Appalachian Lumbermen since 1890
General Offices: Dept. B, Columbus, Ohio



Slow timber growth which depends on favorable climate, soil and drainage, causes the close annular growth rings (A), which, in turn, produce the fine, even grain (B), typical of all Ritter Appalachian Oak Flooring (Fig. 1), the use of which assures the most beautiful oak floors.

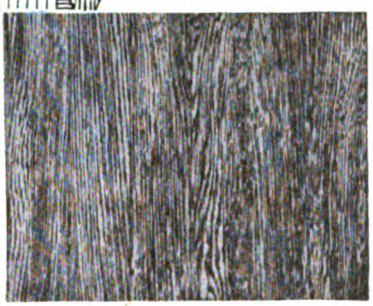
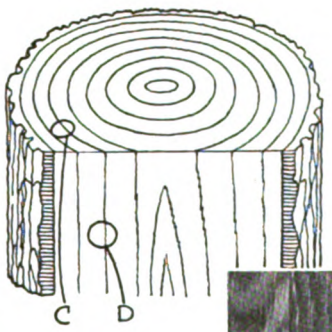


Fig. 1



On the other hand, fast grow ing Oak results in the wide annular growth rings (C), which, in turn, produce the coarse grain (D). Figure 2 illustrates a panel of flooring made of rapid growing Oak. Such flooring lacks the elegance and charm characteristic of Ritter Appalachian Oak Flooring which is manufactured exclusively from slow growing Appalachian Highland Oak timber.

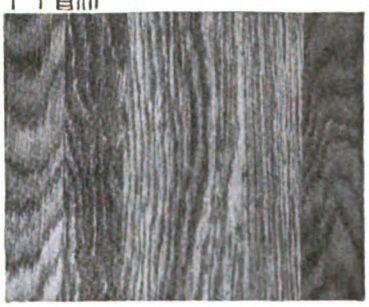


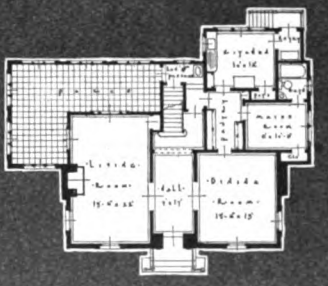
Fig. 2

NOTE—The same qualities which are so characteristic of Ritter Appalachian Highland Oak Flooring also make Ritter Appalachian Highland Oak Lumber superior for interior trim.

RITTER
APPALACHIAN OAK
FLOORING

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Burnham Boilers





Plan of Mr. Scott's residence at Scarsdale, New York, in which his coal-cutting heating system works so fine.

A Steam Job That Equals A Vacuum

W. STANWOOD PHILLIPS is a New York architect with a natural bent for working out heating economies.

Here's one of his methods.

Instead of the usual numerous cellar pipes, running in a network of branchings and bends, he has one goodly-sized pipe main, or "extended header," as he calls it.

This he runs around the cellar and takes the leads from it.

Flow and return friction are both greatly reduced, quickening circulation. But most surprising of all, the rooms are perfectly heated without any pressure indication on the steam gauge.

Why don't you do the same in your houses?

Glad to send you detailed particulars.

Burnham Boiler Corporation

IRVINGTON, N. Y.

New York Office: 30 East 42nd Street

Representatives and Branch Offices in Principal Cities of U. S. and Canada

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Again Flax-li-num Proves Its Value in Selling Homes

"We Regard FLAX-LI-NUM as one of our most valuable assets in selling"

"We are rounding out our sixteenth consecutive year with Flax-li-num insulation as our standard specification. We believe you will be interested in knowing that in all of that time our experience with Flax-li-num has been such that we have never had the slightest occasion for deviating from this material.

"We find that we encounter a great deal less resistance on the part of the owner in recommending Flax-li-num, because of the fact that the material is well known to him and he is sure of the results he will obtain.

"Where we have built homes for sale, Flax-li-num insulation has been one item that has helped materially in the sale of the property. We regard Flax-li-num as one of our most valuable assets in selling a high quality home-building service.

"The fact that we have used Flax-li-num over so long a period we think is evidence enough of the high regard in which we hold it, and we shall never have the slightest hesitancy in recommending it to prospective home builders."

Very sincerely yours,

McCOIG & JESSUP

(Signed) Wm. F. Jessup

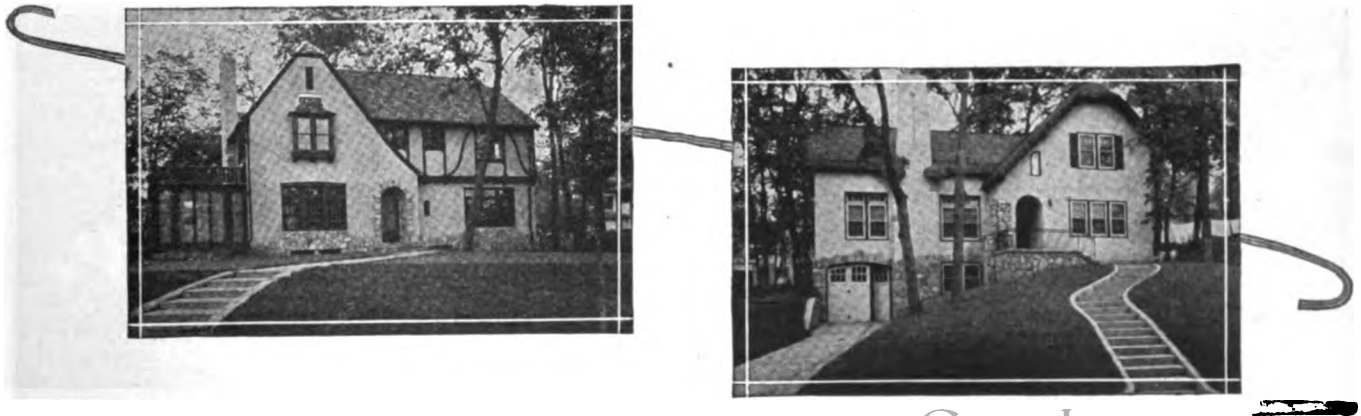
THIS incomparable flax fibre insulation is a super-salesman for builders. Homes insulated with it are out of the price-haggling class.

You can talk *lasting economy* in heating cost—sell *permanent comfort* in summer as well as winter—and *you can safely guarantee FLAX-LI-NUM for the life of the building.*

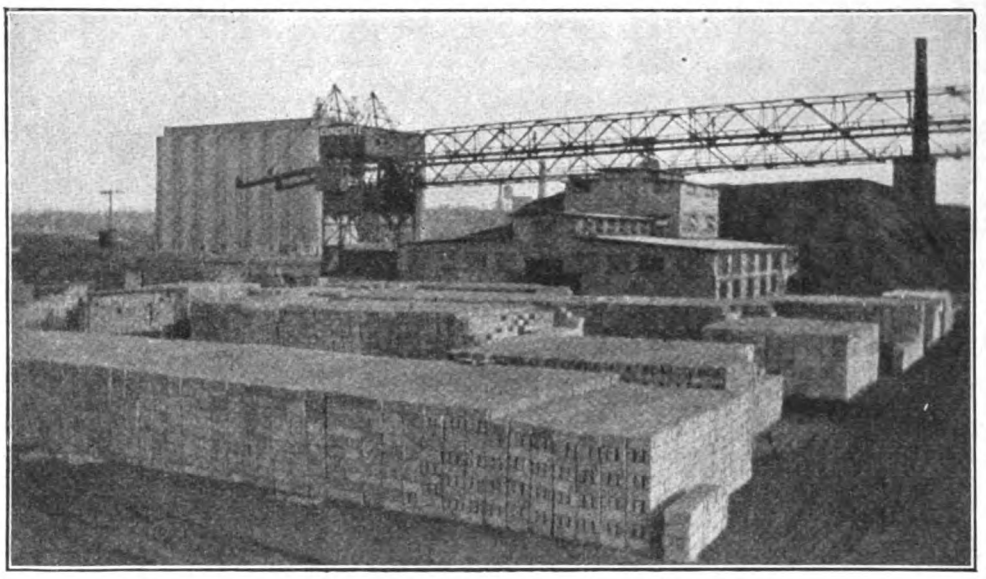
Every builder knows that the most profitable sales are those made to friends of old customers. That is the kind of business FLAX-LI-NUM brings to builders who use it.

If you are not using this flax fibre insulation, read the message from McCoig & Jessup. Then let us refer you to other builders who have proved the superiority of FLAX-LI-NUM as an insulation and as a sales feature.

FLAX-LI-NUM INSULATING COMPANY
SAINT PAUL, MINNESOTA



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Entrance to one of the plants of the National Building Units Corporation, showing a section of the great stock of Cinder Concrete Building Units.

Cinder Concrete Building Units are a manufactured product. Their qualities can be controlled, and all variation prevented. Uniformity in manufacture provides for uniformity in product.

A few of the qualities these Units possess, as proven by careful testing in nationally known laboratories, are as follows:

Highly fire-resistant — *Minimum heat and cold conduction*
Sound-insulating — *Damp-proof*
Average crushing strength 800 lbs. per sq. inch gross area

Inquiries regarding the Cinder Building Unit will have the immediate attention of the company, and of the licensed plant nearest you.

New plants will be added to the company from time to time, in sections where territorial rights have not yet been assigned.

All plants manufacture and sell for building purposes

CINDER CONCRETE BUILDING UNITS

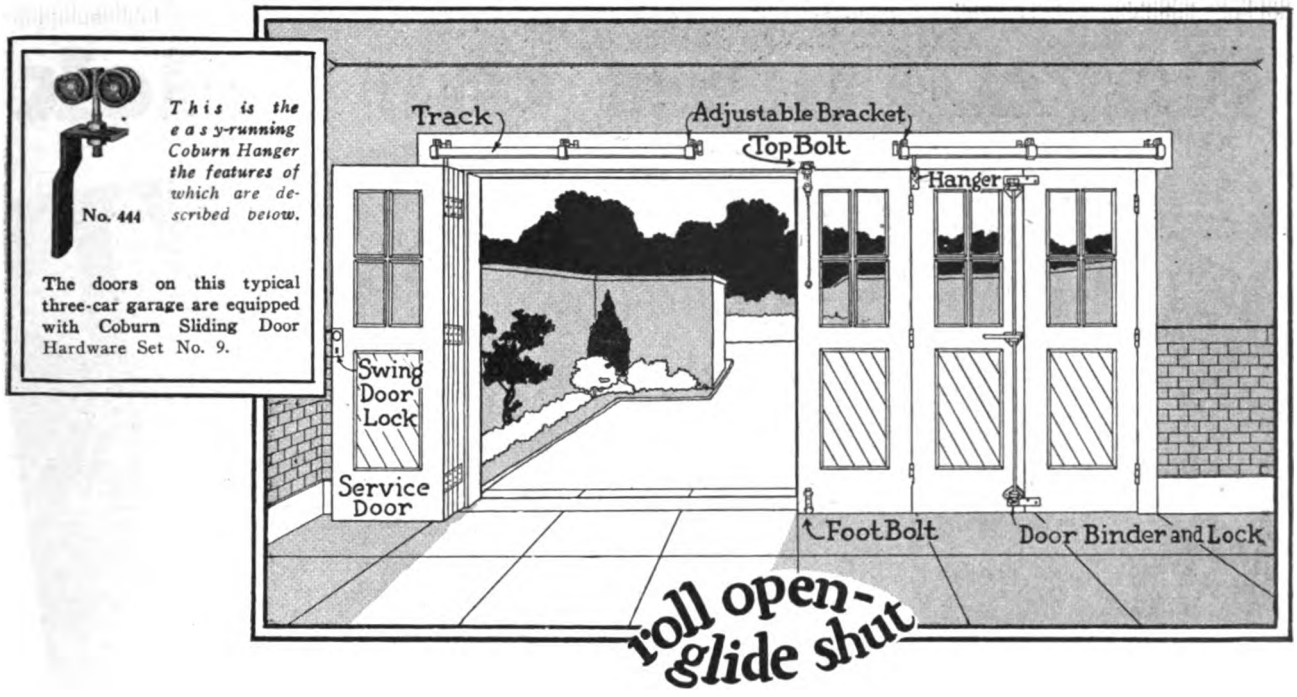
Manufactured under Straub and Bo Patents

Address all inquiries to Department **B**

NATIONAL BUILDING UNITS CORP.

1600 ARCH STREET-PHILADELPHIA

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"Construction"

Drop forgings where drop forgings are needed, cast iron where cast iron is best—"The proper metal in the proper place"—that explains Coburn construction.

TO understand why sliding doors equipped with Coburn Hardware give so many years of trouble-free service, it is only necessary to examine Coburn construction.

Take the Coburn Hanger—all Coburn Hangers designed for use on garage doors are made with cast iron wheels; case hardened, cold-rolled steel stud and bearings; drop forged steel Pendant and stamped steel Petticoat.

Take the Coburn Bracket—Coburn Brackets are the *only* cast iron brackets made. They are twice as strong and more rigid than the wrought steel brackets used by other manufacturers. They hold the track in alignment longer.

Take the Coburn Track—it is of the "round trough" type. It was invented by Coburn and is the strongest and most rigid type of enclosed track that can be made. The round troughs, in addition to being stronger, center the trolley wheels, reducing friction and practically eliminating door wabble.

Such construction is a guarantee that garage doors equipped with Coburn Sliding Door Hardware will *roll open—glide shut* for years without attention. And *only* Coburn Hardware is so constructed.

Examine Coburn construction. Try Coburn Sliding Door Hardware on your next garage job. The Coburn Trolley Track Mfg. Co., Main Office and Works: Dept. G4, Holyoke, Mass. Branches: New York, Boston, Philadelphia, Chicago.

Send this coupon for valuable Sliding Door Reference Book described to left

COBURN
SLIDING DOOR HARDWARE
INVENTORS AND MAKERS OF PRESENT TYPE SLIDING DOOR HARDWARE SINCE 1888 ©

COBURN TROLLEY TRACK MFG. CO.,
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Valuable Sliding Door Reference Book *free* to architects and builders

THIS new Catalog has been designed to be used as a Sliding Door reference book. By consulting it an architect or builder can decide definitely on the best type of sliding door to use in any opening — from china-closet to warehouse. The Catalog also contains complete data on the amount and type of hardware required in every case. Mail coupon for prompt delivery of your copy.

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Novo Turns the Trick

BAY CONSTRUCTION COMPANY
P. O. BOX 420
ST. PETERSBURG, FLORIDA

OFFICE:
EAST END OF GANDY BRIDGE

September 28th, 1926

Tampa Machinery Company,
Tampa, Florida.

Gentlemen:

On September 15th we purchased from you a Model E.F. Novo Engine with two stage centrifugal pump, to be used for jetting concrete piling on the Seawall now being constructed around the fills on Gandy Bridge.

Previous to the installation of this pump we had been using a six-inch steam pump for jetting purposes. This steam pump proved to be too slow. We are jetting 6" x 30" x 14' concrete piling to a seven-foot penetration with your outfit at the rate of one pile every two minutes. Sometimes it takes less time than that. We tried another pump that was recommended to us,- of a nationally known make,- which proved an absolute failure.

The Novo Pump outfit is highly satisfactory to us and we could hardly recommend another to take its place.

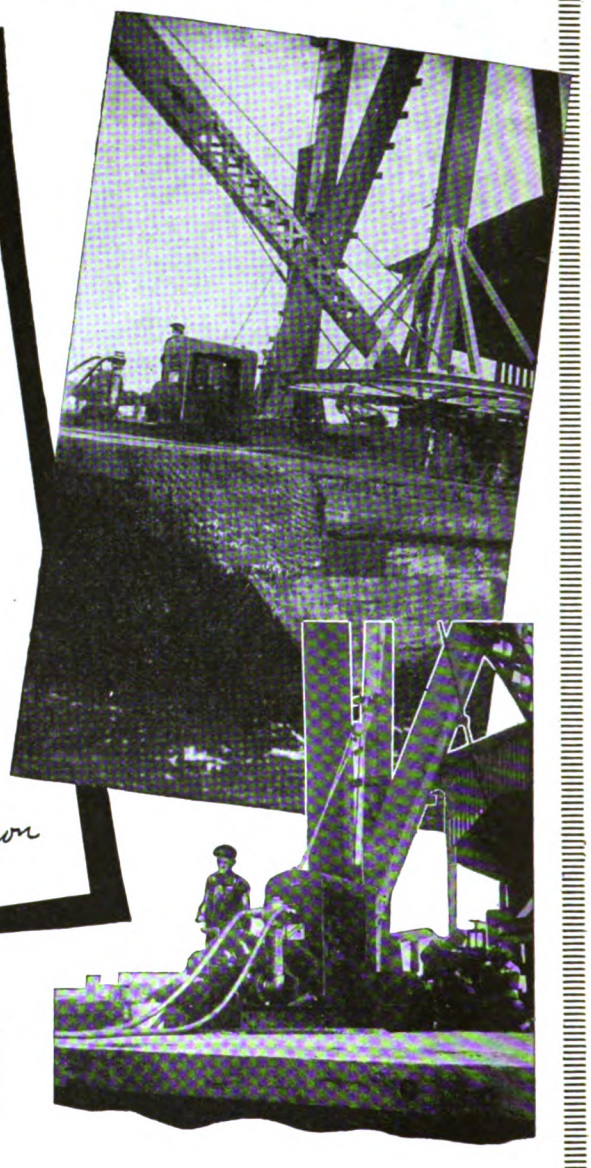
We have used Novo Mixers, Hoists and Pumps on construction here and it has been our experience that the Novo line is as good as anyone could wish for.

Yours very truly,

BAY CONSTRUCTION COMPANY,

By, M. R. Wilson

MRW/1



See Novo's Pump Line at the Road Show



THIS difficult job—jetting 6″ x 30″ x 14′ concrete piles to a seven foot penetration—was turned over to a Novo two stage centrifugal pumping outfit with *very satisfactory* results. The two ¾″ jets work at about 60 pounds pressure.

Novo Engines, Hoists or Pumps *turn the trick* on every kind of construction work. The manner in which this particular Novo Outfit worked is in no way extraordinary.

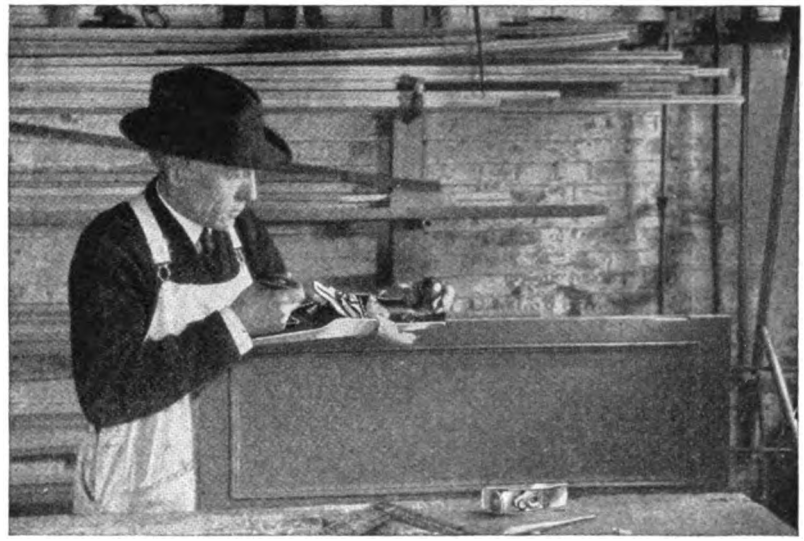
"—The Novo Line is as good as anyone could wish for", writes Mr. M. R. Wilson, Bay Construction Co. Read his letter above.

Mr. Wilson's opinion is worth thinking over.

NOVO ENGINE CO.
Clarence E. Bement, Vice-Pres. & Gen. Mgr.
Main Office and Factory, Lansing, Michigan, U.S.A.

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SARGENT
Tools & Hardware



Self-setting when parts are replaced after sharpening

IT'S no job at all to sharpen the cutter of a Sargent Auto-Set Bench Plane. Just twirl the clamp screw. Then lift out the clamp and the cutter. When replaced they will always return to their original position until reset. This exclusive Sargent feature is a great time saver.

These planes have a thin cutter which is more quickly ground. Yet the support under the cutter is so solid and the clamp so firm above that there's no chattering even when cutting across or against the grain. No cap is required for the cutter, as clamp acts as breaker for the chip. Another Auto-Set feature which appeals to carpenters is light weight. A saving of upwards of two pounds through its modern design saves a lot of energy in the course of the day. See the Auto-Set at your dealer's.

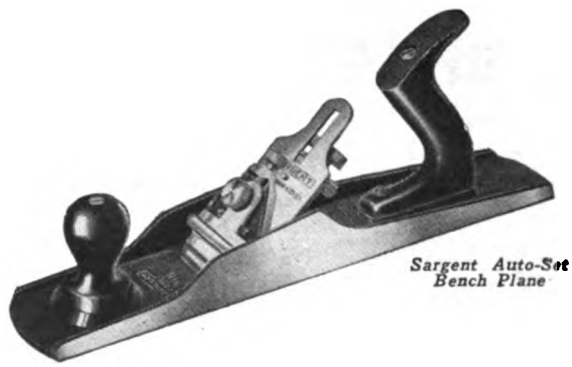
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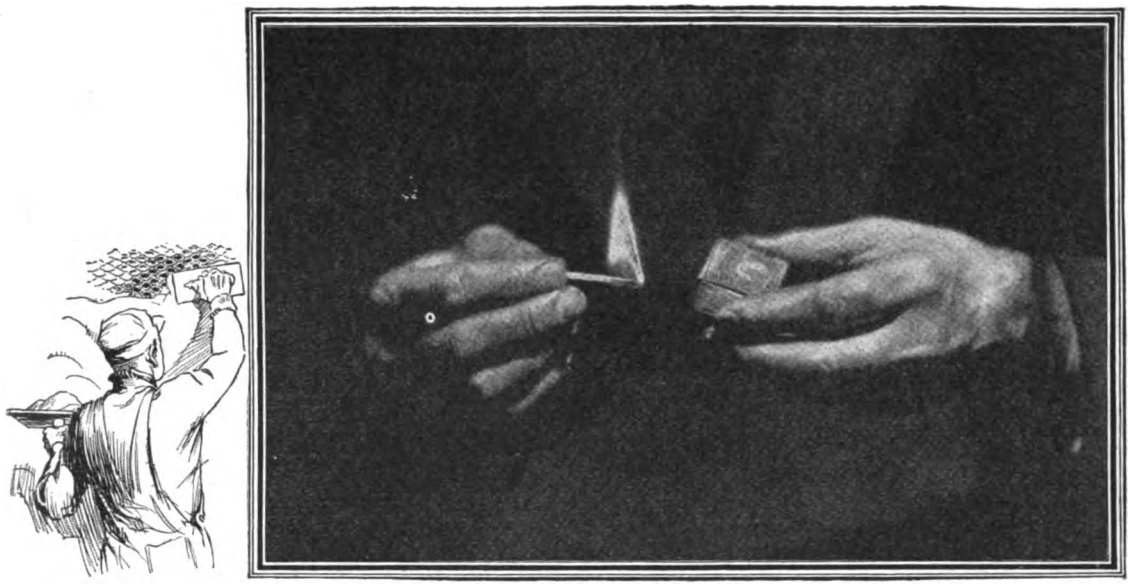
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Address.....



Sargent Auto-Set Bench Plane

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Turn America's Demand for Fire-safety Into Business—Build with Sheet Steel

Seven hundred fifty million matches are lighted in America every day. In turn they fire countless more millions of gas jets, cigarettes, lamps, stoves—millions of fires in the making, any one of which *may* spread destruction.

With Sheet Steel you can build against destructive fires before they start.

For with Sheet Steel you can provide barriers that prevent fires from spreading.

Walls built of metal lath carried on metal lumber are highly fire-resistant, safe construction. Trim, doors, windows and roofs of Sheet Steel give protection at vulnerable points. Bathrooms, kitchens, closets and pantry lined with Sheet Steel tile are safe, sanitary and economical. Such construction eliminates combustibles — and the cost is comparable with any first class construction.

Sheet Steel roofs alone reduce residence and farm fire risks tremendously. New Braunfels, Texas, standardized on Sheet Steel roofing in 1895. The insurance base rate has been reduced from 64 cents to 15 cents. A similar reduction in the farm fire loss would save farmers millions every year.

America's demand for fire-safety means a demand for better buildings, safer buildings. Sheet Steel makes better and safer buildings. For detailed information on specific requirements, address SHEET STEEL TRADE EXTENSION COMMITTEE, OLIVER BLDG., PITTSBURGH, PA.

MASTER TEC BRAND

This trade-mark stenciled on galvanized Sheet Steel is definite insurance to the buyer that every sheet so branded is of prime quality—full weight for the gauge stamped on the sheet—never less than 28 gauge—and that the galvanizing is of the full weight and quality established by the SHEET STEEL TRADE EXTENSION COMMITTEE *specification.*

SHEET STEEL FOR SERVICE.

There is a market for millions of squares of safe, durable Sheet Steel roofing.

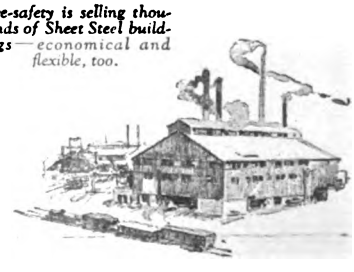






Sheet Steel trim, doors, paneling and equipment reduce fire risks in home or office.

Fire-safety is selling thousands of Sheet Steel buildings — economical and flexible, too.



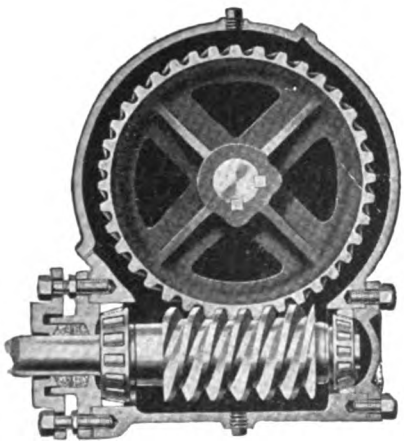
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KOEHRING 7-S DANDIE Mixer



7-S Dandie Mixer

Two or four cylinder gasoline engine! Power charging skip, or low charging platform, automatic water measuring tank, and light duty hoist. Rubber tires and disc wheels, or steel rimmed wheels. Complies with A. G. C. standards.



Worm gear reduction unit mounted on roller bearings, enclosed in dust tight housing and running in oil bath!

To know the Dandie is to be informed on outstanding values in light mixer performance and construction. It's money to you to know the Dandie before you buy a mixer.

Send back the coupon.

FIND, if you can, another mixer that combines all the outstanding features and values of the Dandie and still sells within the price range for light mixers!

The Dandie has a 4 cylinder radiator cooled engine with choice of two cylinder hopper cooled engine or electric motor. No other mixer has the same high grade construction including worm gear drive shaft mounted on roller bearings and reduction gears running in oil bath! Bronze bushed drum roller bearings, the rollers pinned to shafts and the shafts turning in big bearings! Double gear drum drive! Fast clean charging, and fast discharging!

The Koehring Dandie is not only a mixer of long trouble-free service, but a fast worker. Big volume, standardized production alone make possible this remarkable mixer within the range of light mixer prices. Send back the coupon today for full detailed facts about this moneymaking mixer, this great value for a light mixer price!

KOEHRING COMPANY

PAVERS MIXERS—GASOLINE SHOVELS, CRANES AND DRAGLINES

MILWAUKEE, WISCONSIN

Sales Offices and Service Warehouses in all principal cities

Foreign Department, Room 1370, 50 Church Street, New York City

Canada, Koehring Company of Canada, Ltd., 105 Front Street, East, Toronto, Ontario

Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

Send Back the Coupon for Full Details!

Take our word for it, you will be putting yourself in the way of extra profits and extra value if you learn all about the details of this Dandie Model before you decide on a one bag light mixer. No obligations. Send back the coupon today!

▲ 3200-I

KOEHRING COMPANY, Dept. D-4 MILWAUKEE, WIS.

Without obligation to me of any kind, send me free information about the Koehring Dandie Light Mixer.

Name_____

Address_____

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WHEN you specify Solvay Flake Calcium Chloride as the accelerating agent for use with Portland Cement in concrete construction you automatically save time and money.

Solvay Flake Calcium Chloride is essential for best concrete construction because it has been definitely established that it improves the quality of the concrete and increases the strength.

Speed up all concrete work, all the year round with Solvay Flake Calcium Chloride.

Write for Booklet No. 2353

Solvay Calcium Chloride helped the contractors, engineers and architects on each of these well known buildings to do an essential part of the work quicker and better.

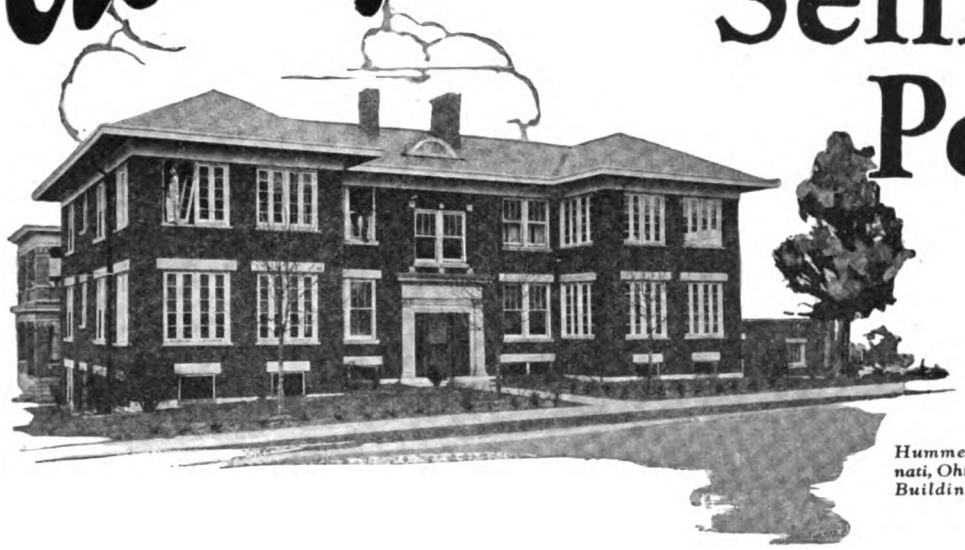
THE SOLVAY PROCESS CO.
Wing & Evans, Inc., Sales Dept.
40 Rector Street, New York



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CHAMBERLIN-

Always a powerful Selling Point~



Hummel Apartments, Cincinnati, Ohio: The David Hummel Building Company, Builders.

MANY men and women prefer to live in a Chamberlin equipped home. Effective national advertising has educated them upon Chamberlin's outstanding advantages. They know that Chamberlin manufactures its weather strips and installs them, thus insuring permanently satisfactory weather stripping results. They know that Chamberlin, a million dollar Company, gives a guarantee that endures "for the life of the building". They know that a nation-wide service organization is available to give to them service should the necessity ever arise. Chamberlin, therefore, enjoys outstanding leadership in its line. Why not take advantage of that in your sales plans?

LIFETIME GUARANTEE

Chamberlin manufactures its Weather Strips, installs them, assumes full responsibility for correct installation and guarantees and services its equipment "for the life of the building".

CHAMBERLIN METAL WEATHER STRIP COMPANY
West Lafayette Blvd., Detroit, Michigan
100 Sales and Service Branches throughout the United States

CHAMBERLIN WEATHER STRIPS
"SINCE 1893-THE STANDARD"

Chamberlin Metal Weather Strip Company
West Lafayette Blvd., Detroit, Michigan

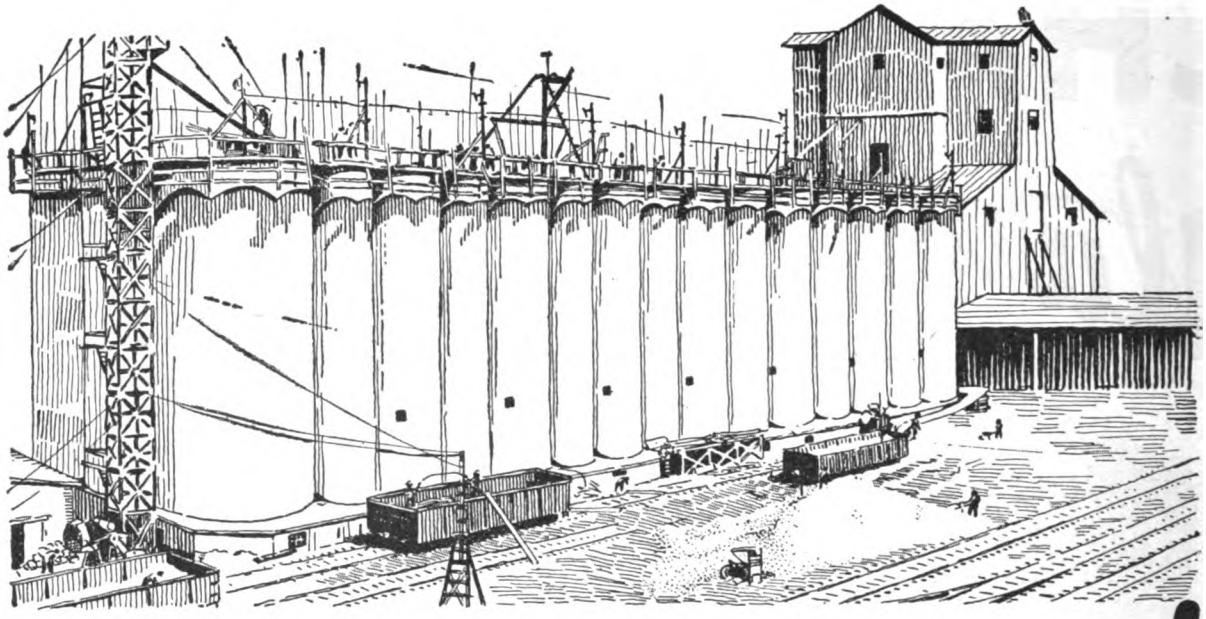
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PERFORMANCE!

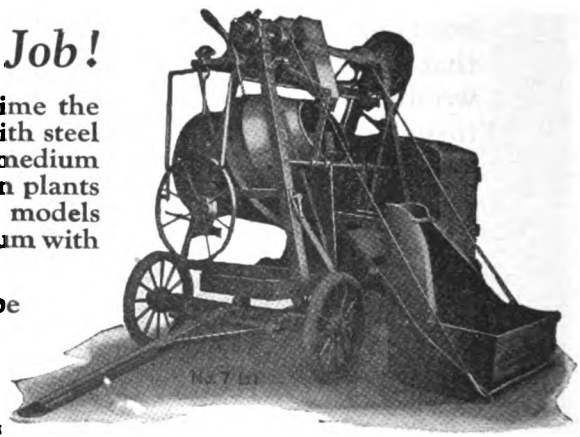
ON big concrete jobs—where time is the essence of the contract—and close bidding makes economy necessary—a Jaeger Mixer is the choice of the wise contractor. Jaeger production records on the largest concrete structures in the country illustrate performance that guarantees high grade, low cost concrete.

There is no "time out" for repairs when a Jaeger Mixer sets the pace. No breakdowns that tie up a crew and eat up profits. Jaeger Mixers are built for dependable performance under all climatic conditions—and under forced draft production they handle extra loads with ease.

The Right Model for Every Job!

For smaller jobs that require but a few hours time the Jaeger 3½ Trailer or the 5-L is built. Equipped with steel wheels, pneumatic or cushion tires, these small and medium capacity mixers are complete concrete production plants with all modern labor saving devices. All Jaeger models from 3½ to 14 are built with the Jaeger Tilting Drum with the flat spots inside and the famous split paddles.

Our catalog and name of our nearest dealer will be promptly sent on request.

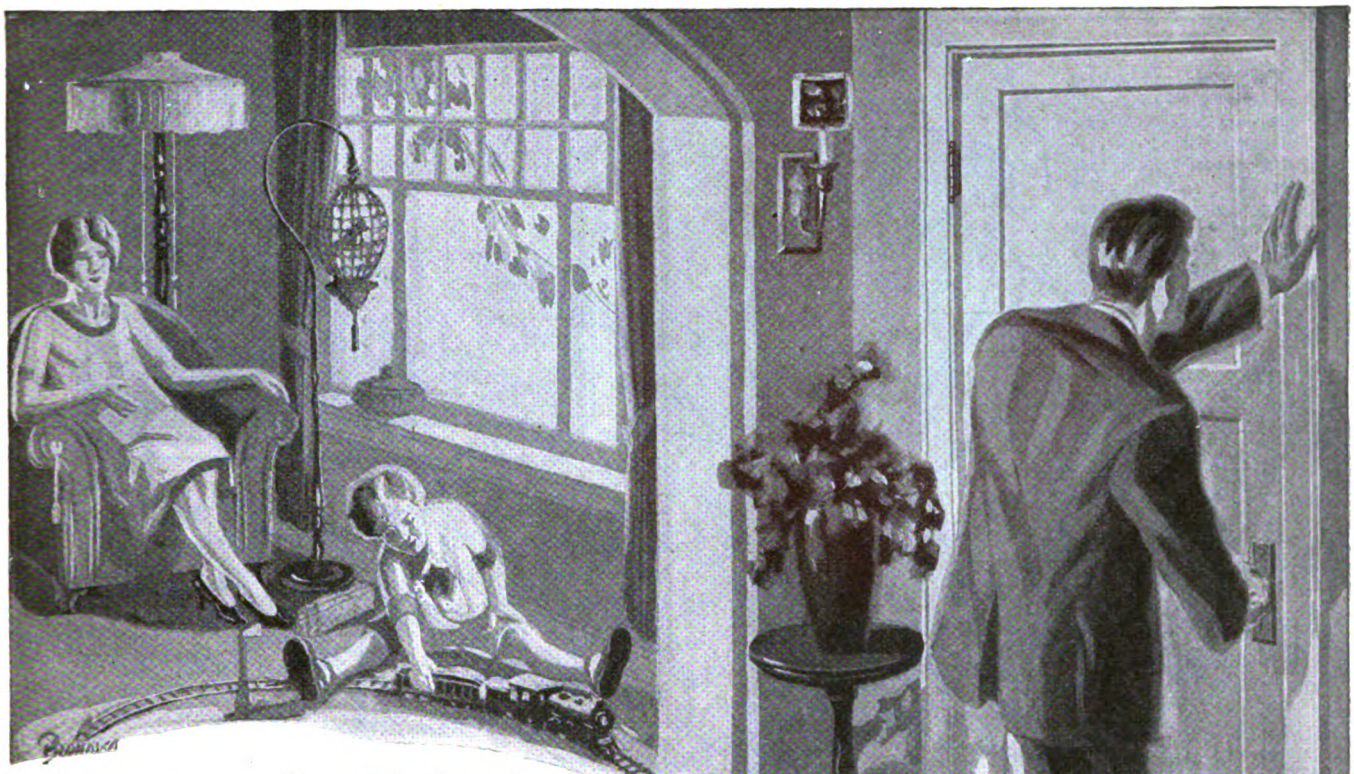


The Jaeger Machine Company
216 Dublin Ave. Columbus, Ohio

JAEGER

THE ORIGINAL JAEGER TILTING DRUM MIXER

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Many a builder's reputation has suffered through *warped* doors!

NO builder can afford to have it said that his construction is faulty . . that the doors don't fit. Yet, people will often get such wrong impressions when doors wind or warp.

Doors made the ordinary way are bound to warp when affected by marked differences of temperature and climate, dampness in walls and other such conditions. Science shows that wood contains tiny cells or *tracheids*. These never change in length; but in moisture, heat and cold they shrink and swell in width, causing warping. It is this characteristic of wood that the Laminex process overcomes. It is scientific.

In all Laminex doors the stiles and rails are built on a core of interlocking blocks with the grain crossed in adjoining sections. All parts, including the plywood panels, are welded with Laminex waterproof cement and held under tremendous hydraulic pressure for 24 hours.



The famous soaking test as originated by Prof. Bror L. Grondal, proving that Laminex is unaffected by moisture. Under this sensational test, repeated in all parts of the country, no Laminex door has ever warped or come apart.

This unusual story of Laminex construction is being broadcasted throughout America by the use of large space in national magazines such as The Saturday Evening Post. The fame of Laminex as the trouble-proof door is further spread by sensational demonstrations in every section of the country. Therefore when a builder uses Laminex and lets people know it, he is making his property just that much more salable. And with all that Laminex is priced at the level of any ordinary door.

Popular designs carried by millwork and lumber merchants. Look for name "Laminex" and guarantee label on end of every door. Send coupon for literature and sample of Laminex wood.

Sales Offices: New York, Chicago, Memphis, Los Angeles, San Francisco, Spokane. Foreign: Woco Door Co., London; E. J. Van de Ven, Paris; Paul Solari & Co., Genoa.

THE WHEELER, OSGOOD COMPANY
Tacoma, Washington

LAMINEX DOORS

Will not shrink, swell or warp

THE WHEELER, OSGOOD COMPANY,
Tacoma, Washington.

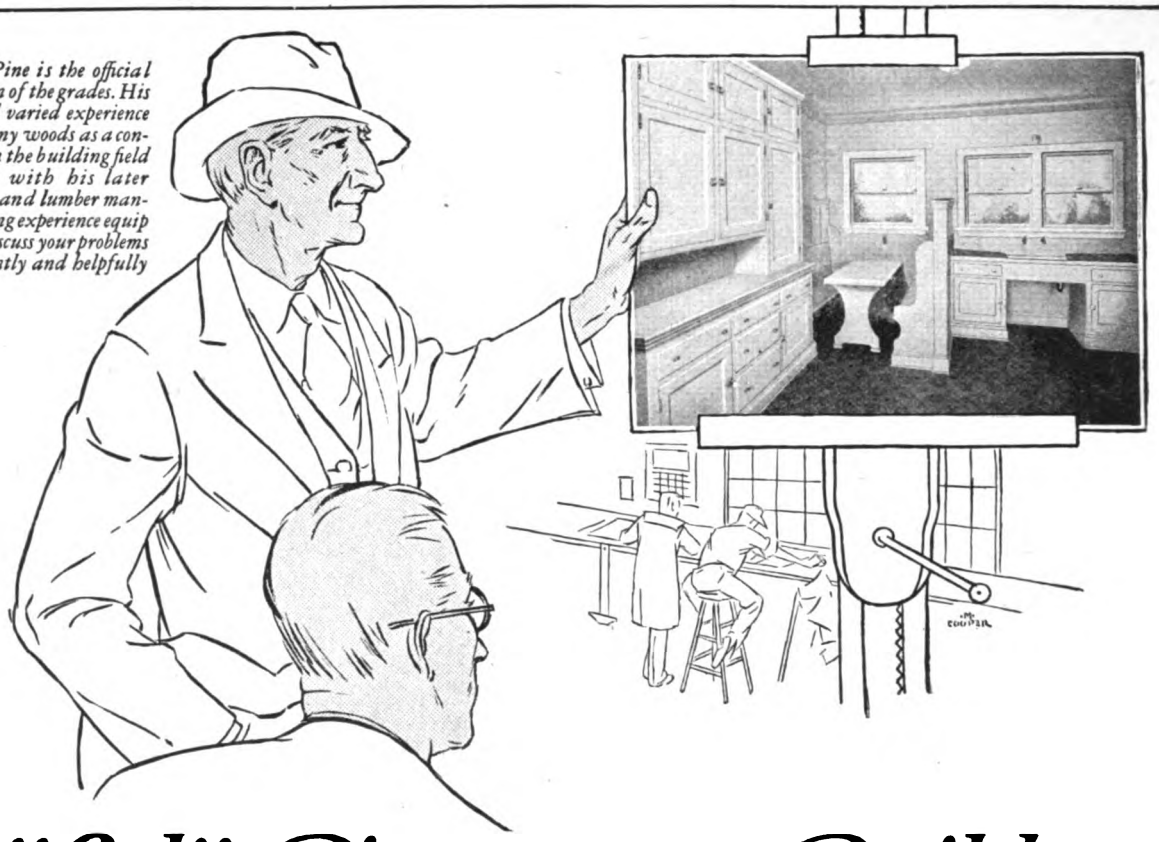
Gentlemen: I would like to know more about Laminex doors. Also send me literature and sample piece of Laminex, so we can make our own tests.

Name.....

Address.....

City.....*State*.....

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"Cal" Pine is the official guardian of the grades. His long and varied experience with many woods as a contractor in the building field together with his later grading and lumber manufacturing experience equip him to discuss your problems intelligently and helpfully

"Cal" Pine and the *Builder*

Discuss Cabinets and Built-in Conveniences

"WHAT are the chief merits, 'Cal' Pine, of California White Pine and Sugar Pine for built-in cabinets, bookcases, and kitchen and laundry conveniences?"

"Well, you as a builder, like to see your designs carried out accurately. You can depend upon the most delicate lines and contours being reproduced as drawn when California Pine is specified. The uniformly soft texture and close, even grain of this wood assures easy planing, chiseling and sawing without splintering; precise fitting with joints that 'stay put' whether nailed or glued; remarkable freedom from warping and shrinking; no splitting even when nails and screws are driven right up to the edges, saving time and material. You can always expect, and get, a neat, craftsman-like job where California Pine is used. Doors will hold their shape, fit snugly and open and close easily. Manufacturers specializing in standard types of built-in cabinets and conveniences favor California Pine and use large quantities of it."

"How about the painting and enameling qualities of California Pine?"

"Easier, quicker work for the painter, cheaper for the owner. That's because California Pine has a natural light color which requires fewer coats for a fine job and because the smooth, satiny surface offers little resistance to the brush. Both of these qualities save time and money in painting. Paint and enamel hold their original beauty and smoothness, they don't show discoloration, crack or streak because California Pine is so free from pitch and the grain of the wood does not 'raise' and cause ridges in the enamel."

"What grades of California Pine are used for cabinets and built-in conveniences?"

"For cabinet work constructed on the job, use either 'No. 1 and 2 Clear', 'C Select' or 'D Select'. These are all select board grades for fine paint or enamel finish. My illustrated book gives full data on sizes, grades and uses. A postcard will bring you a free copy."



CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION

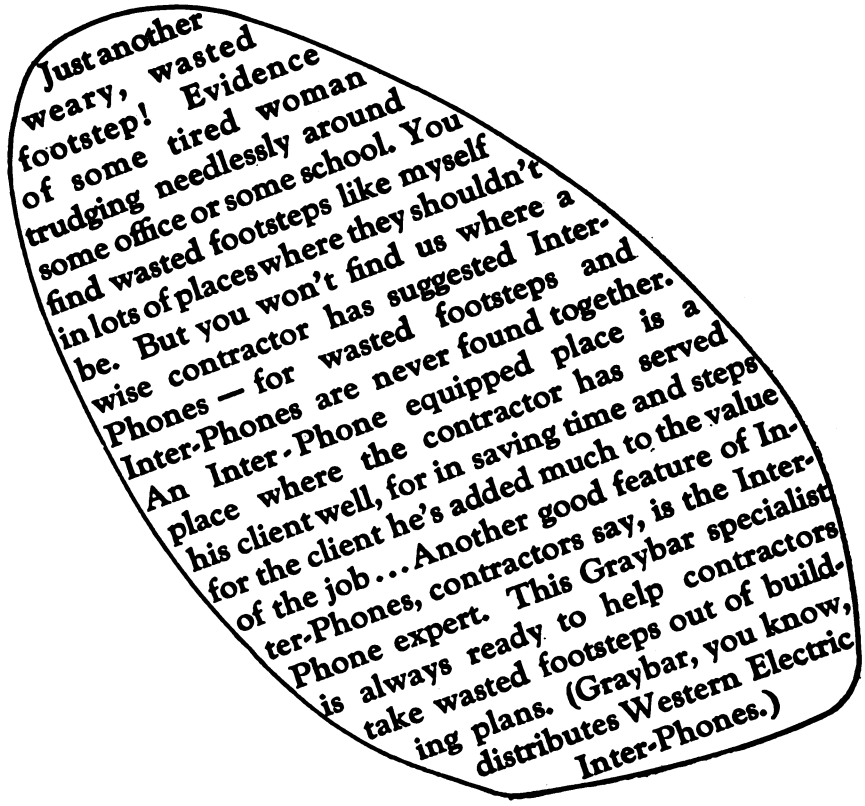
Also producers of CALIFORNIA WHITE FIR · CALIFORNIA DOUGLAS FIR · CALIFORNIA INCENSE CEDAR

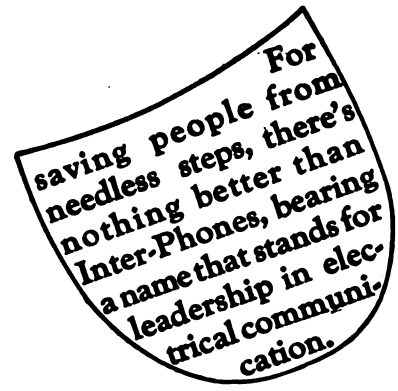
657 CALL BUILDING, SAN FRANCISCO

california PINE

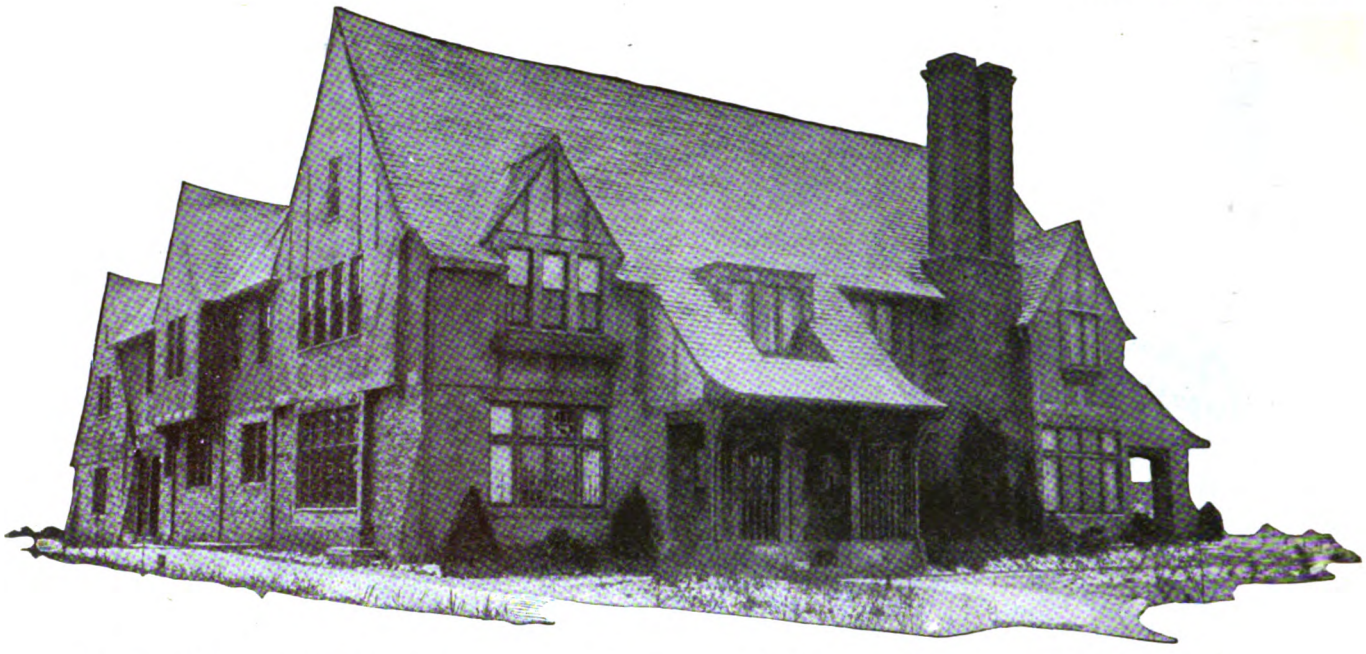
California White Pine (trade name) California Sugar Pine

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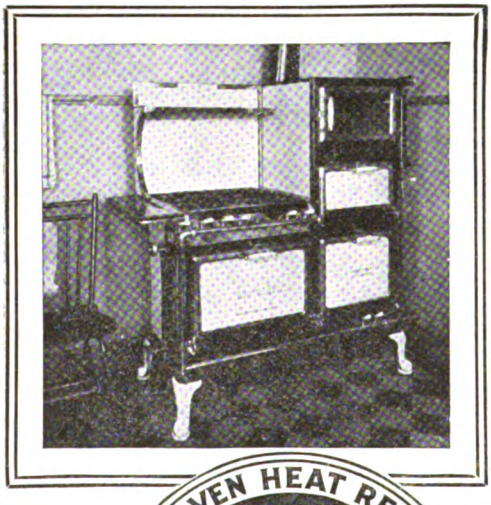


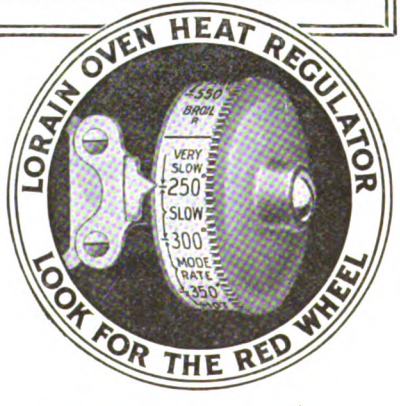
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Make Room for Kitchen Progress

Illustration above shows residence of Mr. J. Paul Zens, 2891 Paxton Road, Shaker Heights, Ohio. Architect, Philip Lindsley Small, Cleveland, Ohio. Below: Interior view of kitchen with Lorain-equipped Dangler Gas Range.





One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.

Unless the Regulator has a RED WHEEL it is NOT a LORAIN

THE provision of adequate space for a Lorain-equipped Gas Range of cooking capacity in proportion to the size of the household should be a major consideration in planning the kitchen.

Women examining new homes look for the Red Wheel that identifies the Lorain Self-regulating Oven, because it means perfect cooking, easy canning and leisure.

More than 1900 school and university domestic science departments use Lorain Red Wheel Ovens. Millions of women see the Red Wheel advertisements that appear continually in their favorite magazines.

Lorain Red Wheel Ovens are built only in the following famous makes of Gas Ranges: **Reliable, Clark Jewel, Dangler, Direct Action, New Process** and **Quick Meal.** For specific data see Sweet's Catalog, 20th Edition, Pages 2769-2778 or send for our *Handbook on Gas Ranges for Architects and Builders.*

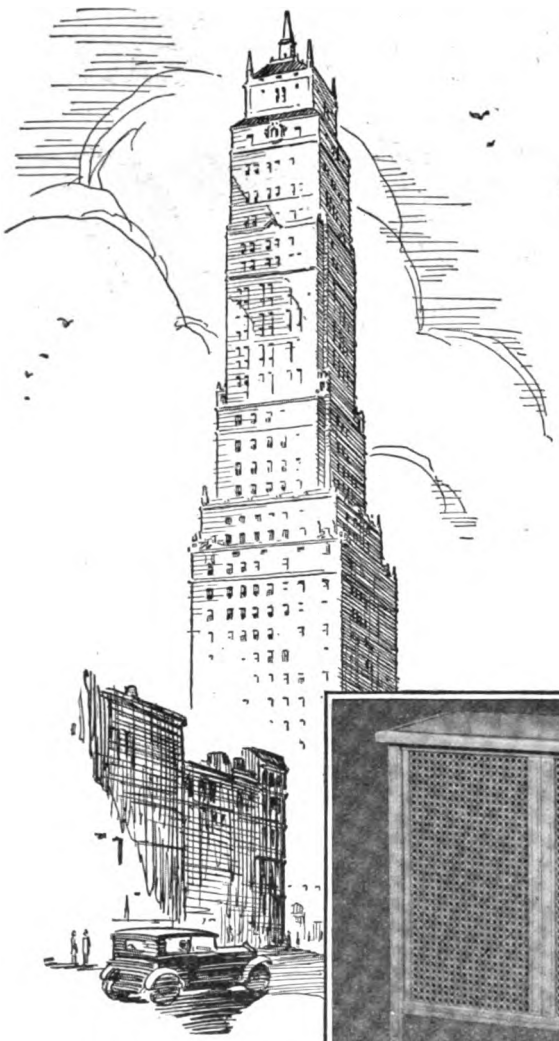
AMERICAN STOVE COMPANY

Largest Makers of Gas Ranges in the World

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LORAIN OVEN HEAT REGULATOR

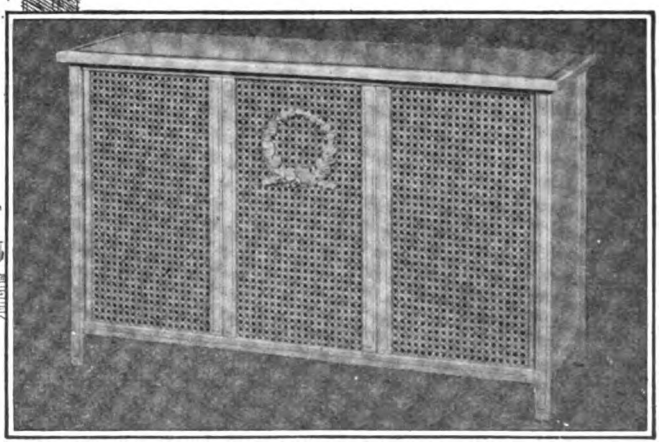
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Tuttle & Bailey
all-steel
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The *Villa*. The cabinet illustrated is finished in old ivory and has Steelcane Grilles. The *Villa* with slight variations was selected for Ritz Tower.

TUTTLE & BAILEY *all-steel* Radiator Cabinets are provided as standard equipment in Ritz Tower . . . one of the more recently completed of New York's ultra-modern apartment hotels. Builders and home owners seeking to secure those effects which take houses out of the commonplace, will find our cabinets of practical assistance.

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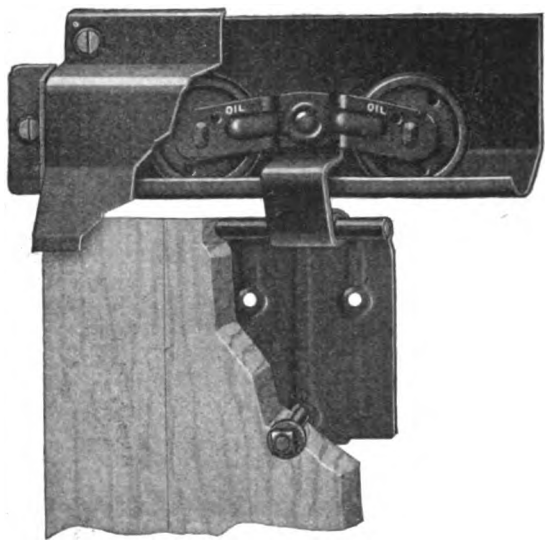
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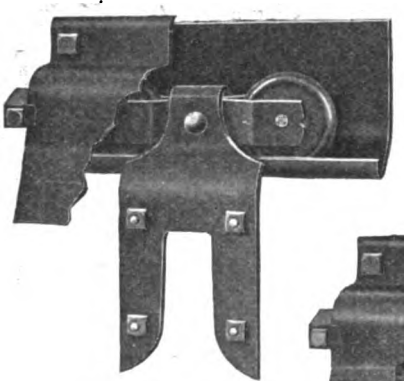
National

Storm-Proof Hangers and Rail

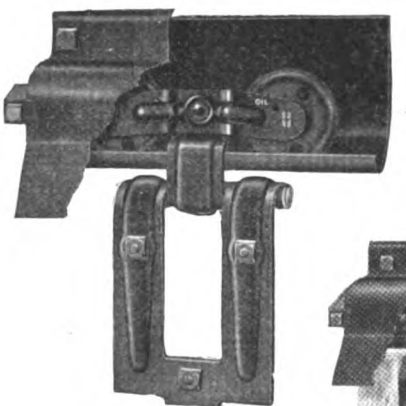
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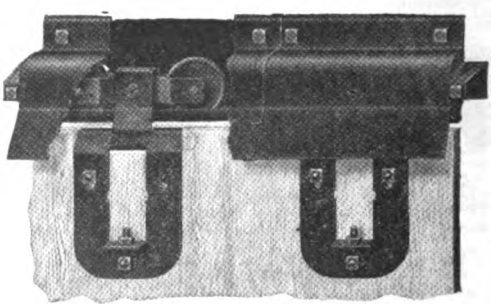
Profit by recommending "Storm-Proof." You will be repaid in cash and good will.



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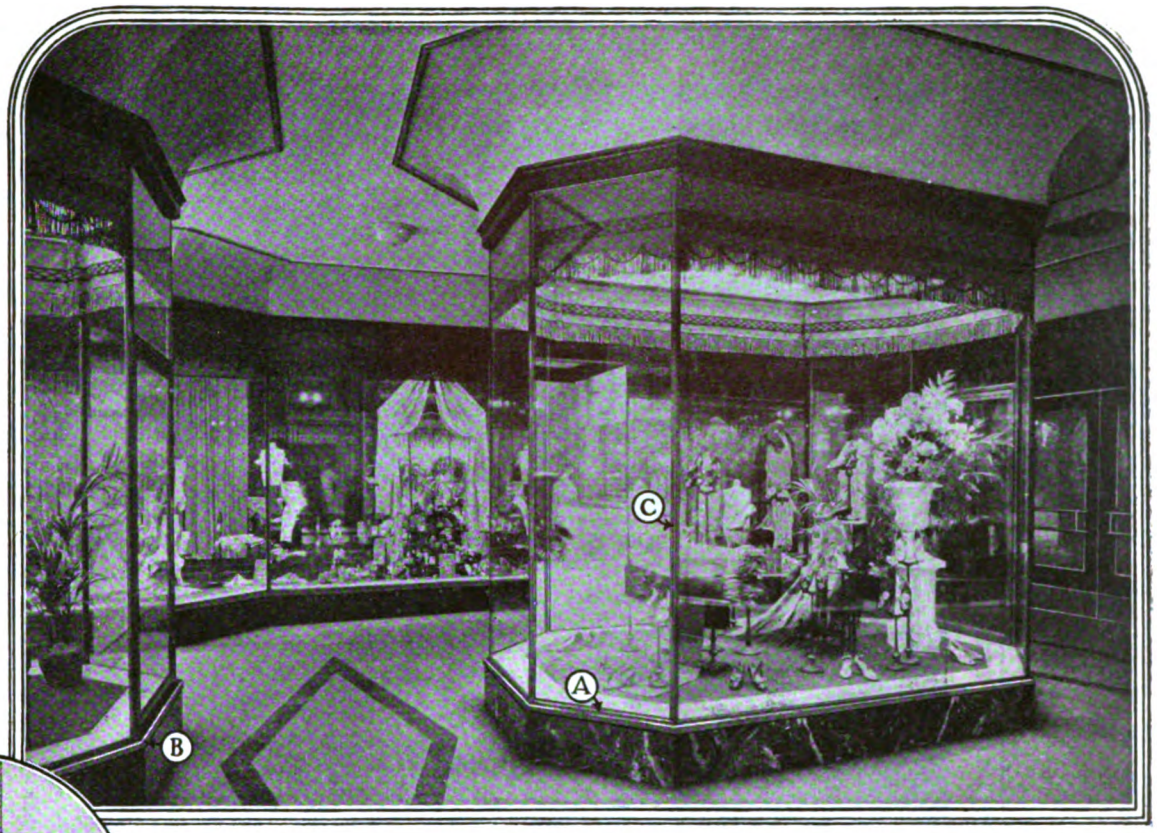


No. 88 Storm-Proof

Write for the Storm-Proof Booklet for detailed information on this line of door hangers.

NATIONAL MANUFACTURING COMPANY
STERLING ∴ ILLINOIS

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The Fashion Front, Columbus, Ohio, (Side view from vestibule).

The F. & Y. Construction Co., Contractors.

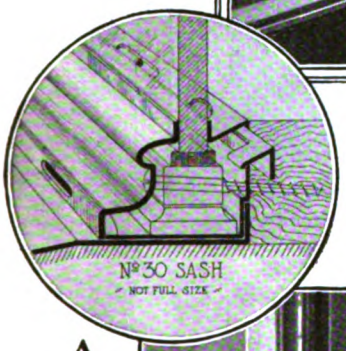
Views A-B-C Show Why

ADD to Fair Dealing, Honesty and Integrity (essentials of any business transaction) the principles of construction here shown and you have the reason for the thousands of permanent friends Kawneer has among contractors.

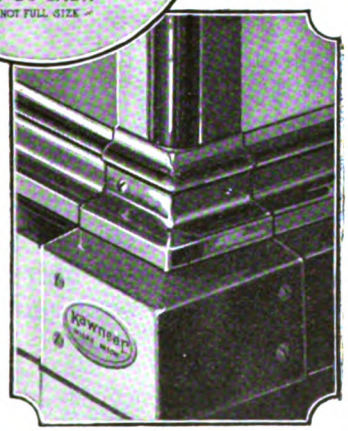
"A" shows No. 30 sash with ventilating slide. It can be installed from outside without assistance of two men, and its resilient grip protects the glass from breakage.

"B" shows corner at sill. So perfectly does each member of Kawneer join the other that it appears to be cast in one mold. No part has been neglected.

"C" shows No. 6 corner bar. The practical and positive assembly of all Kawneer bars has won universal approval and admiration. Ask the opinion of any contractor who has installed KAWNEER SOLID COPPER STORE FRONT CONSTRUCTION.



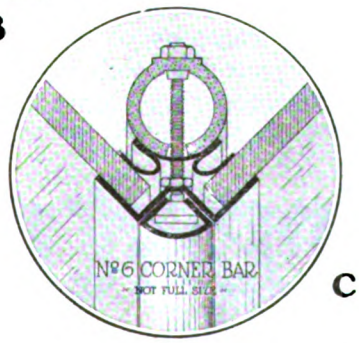
A



B

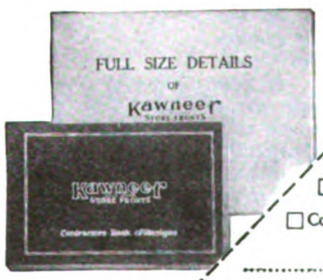
Corner bar, sash and sill combined into one perfect unit. Strong, easy to install and pleasing to the eye.

Examine Kawneer construction on an actual installation.



C

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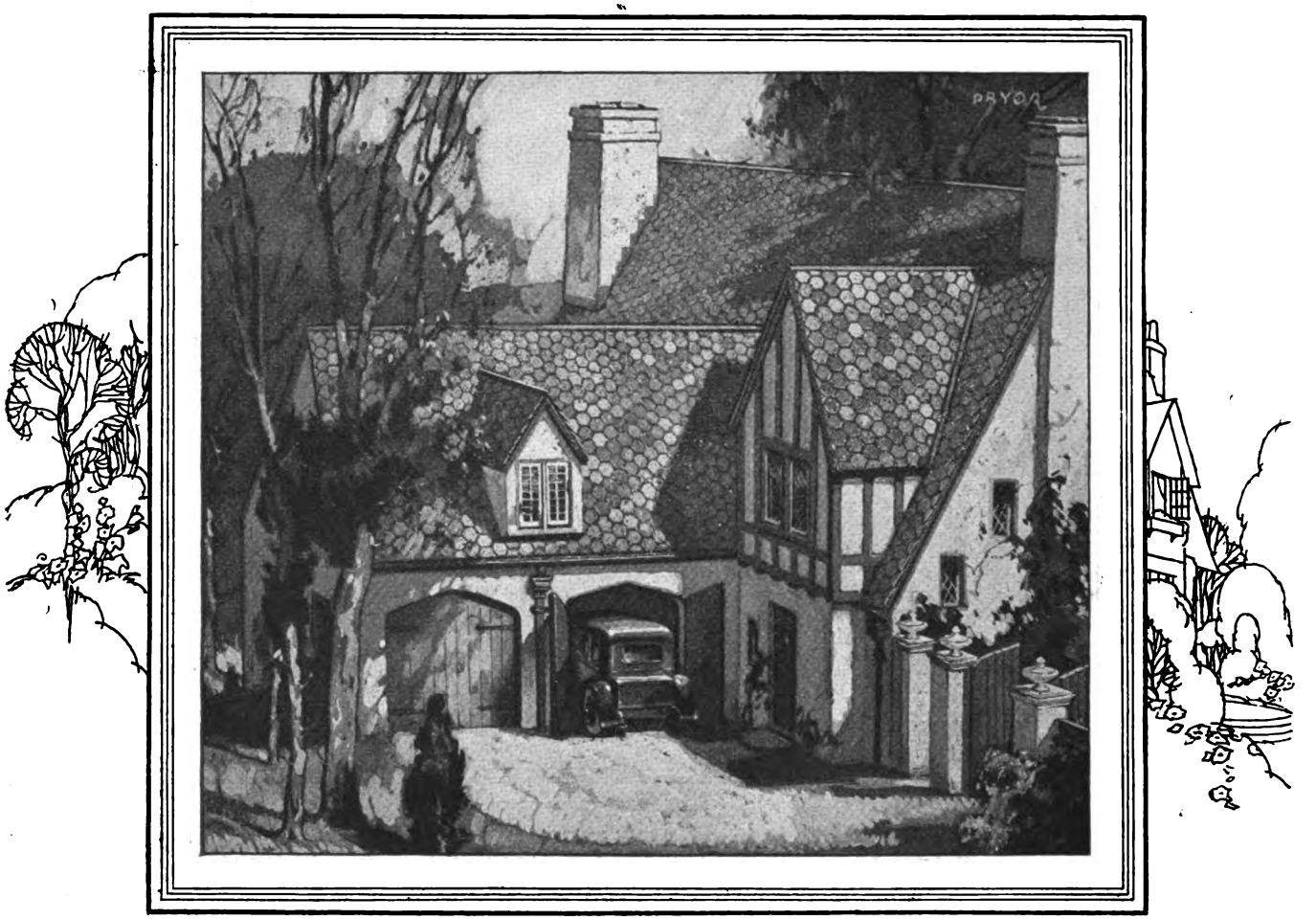
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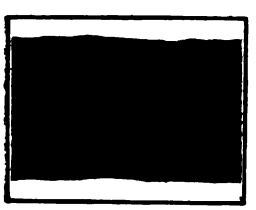
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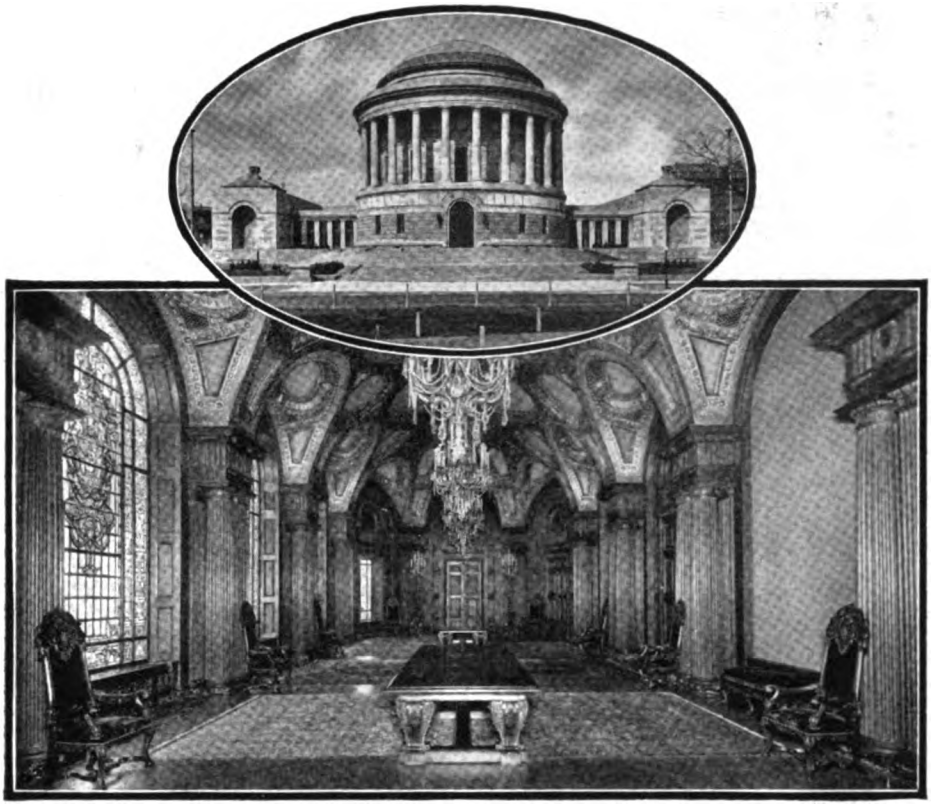
THESE two qualities make a Preston Roof distinctive. Green, blue-black, red and a sunset blend are offered to the architect who seeks a distinctive color effect without obtrusiveness. Soft, natural tints are secured from the slate particles with which Preston Shingles are surfaced.

The Massive Weight is *one-third thicker than a No. 1 standard slate shingle.* This ample thickness creates the shadow line that architects demand. Samples of Preston Shingles and an information card for your files will be mailed on request. Keystone Roofing Manufacturing Company, Dept. C23, York, Pa.

Preston ROOFING

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STABILIZED BY KOLL LOCK-JOINT COLUMNS



Photos by E. L. Fowler, Chicago.

Elks Memorial, 2750 Lakeview Avenue, Chicago
Tracy Swartout—Architect *Hegeman-Harris—Builders*

OVERLOOKING Lincoln Park stands the monumental new $3,000,000 Elks Memorial.

This magnificent building was erected largely from contributions by the 900,000 members of the order, as a lasting memorial to Elks who fought in the World War.

There is probably no finer building in all the world. Particularly is this true of the beautiful oak conference room. No palace or castle of modern king or ancient monarch can boast a room more gorgeous in design or furnishings. The hand carving, the great windows, the chandeliers—in fact, every feature is a genuine work of art.

We consider it a distinct compliment to Hartmann-Sanders that the woodworkers, Mathews Mfg. Co., should select patented Koll Lock-Joint Columns as a prominent feature of this classic room. The columns are of quarter sawed white oak, 16″ x 10′ in size, and accurately fluted according to a special process.

No matter whether you have in mind fine interior or exterior work, Hartmann-Sanders craftsmen have the experience and ideals required to give fullest expression to your artistic conceptions.

Catalogs of Koll Lock-Joint Columns, Entrances, or Garden Equipment gladly sent on request. Hartmann-Sanders Co., 2170 Elston Avenue, Chicago; Eastern Offices and Salesroom, 6 East 39th Street, New York City.

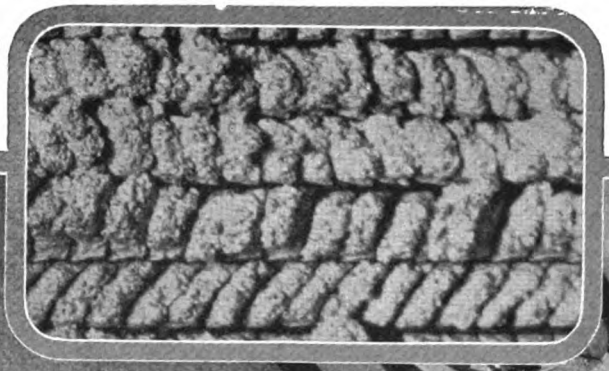
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Pergolas
Rose Arbors
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KOLL LOCK-JOINT COLUMNS
THEY CANNOT COME APART

Colonial
Entrances
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Columns

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Close-up of key side of Herringbone Doublemesh showing uniformity of plaster distribution. Small mesh affords remarkable bend for plaster, and because of even uniform expansion the lath embeds itself thoroughly in plaster, thus assuring permanence of construction.



More Than a Plaster Base

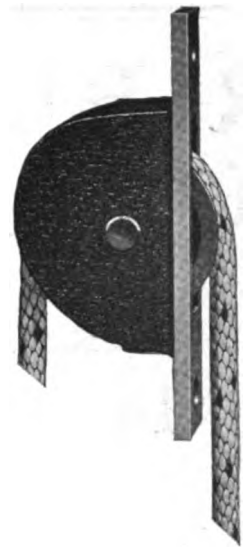
Herringbone Doublemesh Metal Lath gives you more than the best plaster base that engineering skill has developed. It gives you plaster construction for walls and ceilings that is permanent, crack-proof and fire-safe, and economical —a construction upon which you can lavish the most artistic decorative effects with the certain knowledge that these effects will endure for years to come.

Herringbone Doublemesh

METAL LATH

THE GENERAL FIREPROOFING BUILDING PRODUCTS
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Prepared and Edited by the Editorial Staff of

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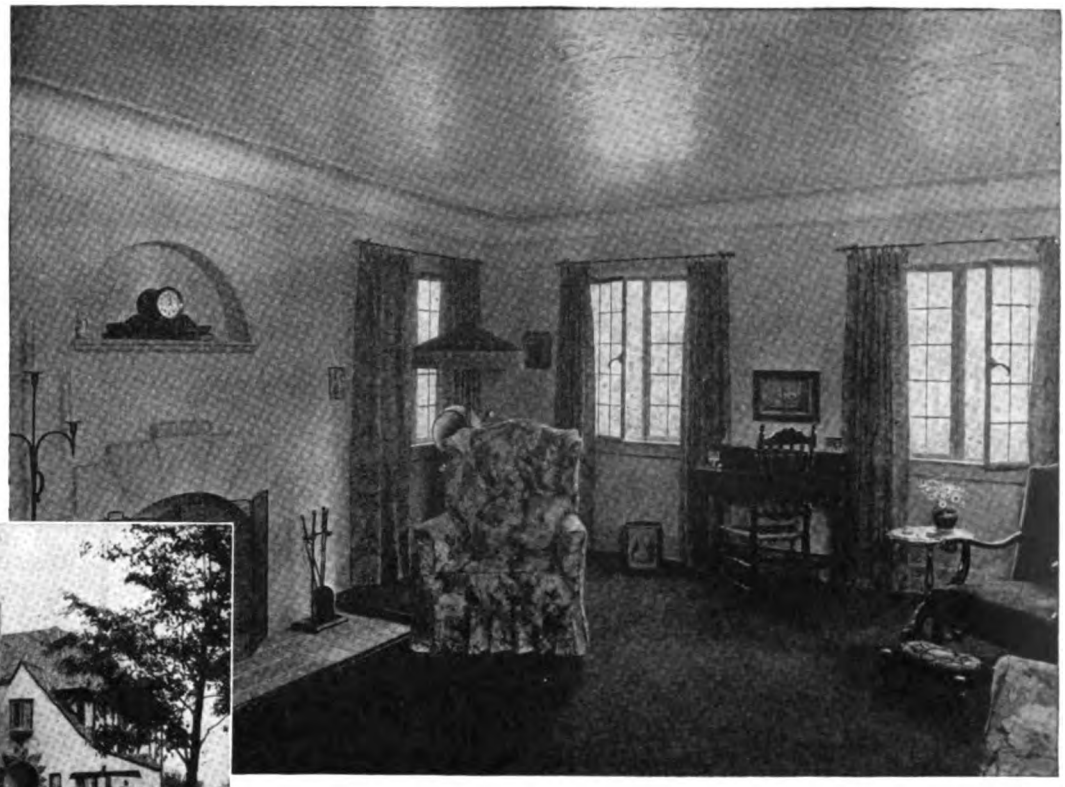
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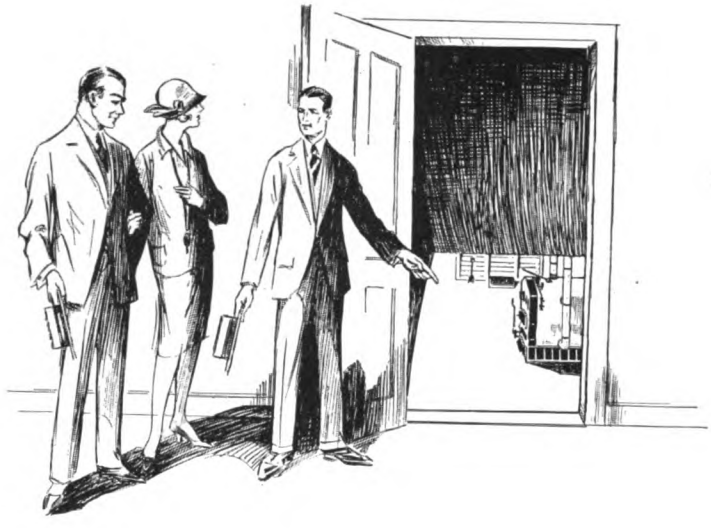
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This book discusses the stresses and strains to which the wood in your structure may be subjected. It recommends correct uses of Southern Pine. It is a recent publication and it is free. Send for it. Build right—and know you are right.

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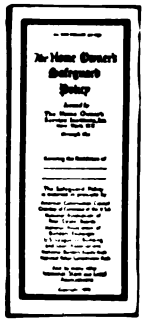
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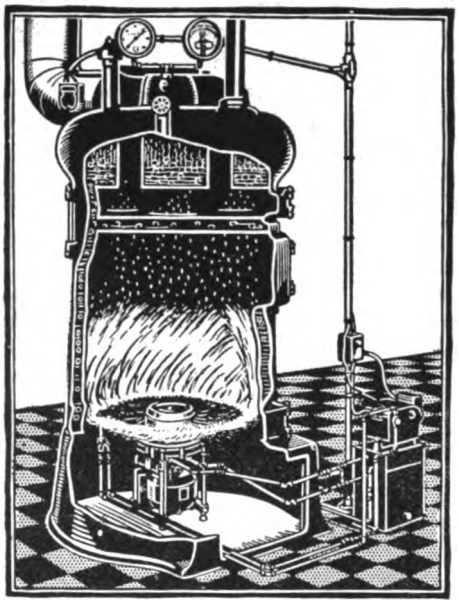
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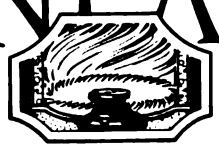
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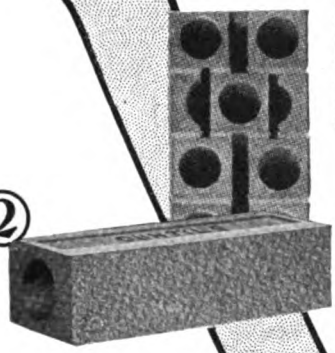
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Mr. W. H. Ritzert is but one of 350 former contractors, builders, bankers, salesmen, architects, etc., comprising nation-wide Duntile organization.

2. Product

Duntile has more advantages and provides greater economies than any other unit or material. Duntile builds better buildings cheaper.

3. Plant

Duntile is made locally by over 350 standardized plants, using mechanical equipment developed to the highest point of efficiency.

4. Market

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5. The Start

Mr. Ritzert received his first information on Duntile through "Basic Facts." It has been the gateway to manufacturing independence for more than 350 other men.



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6. Duntile walls are erected much faster than any other kind of permanent masonry. Labor-saving pays for Duntile.

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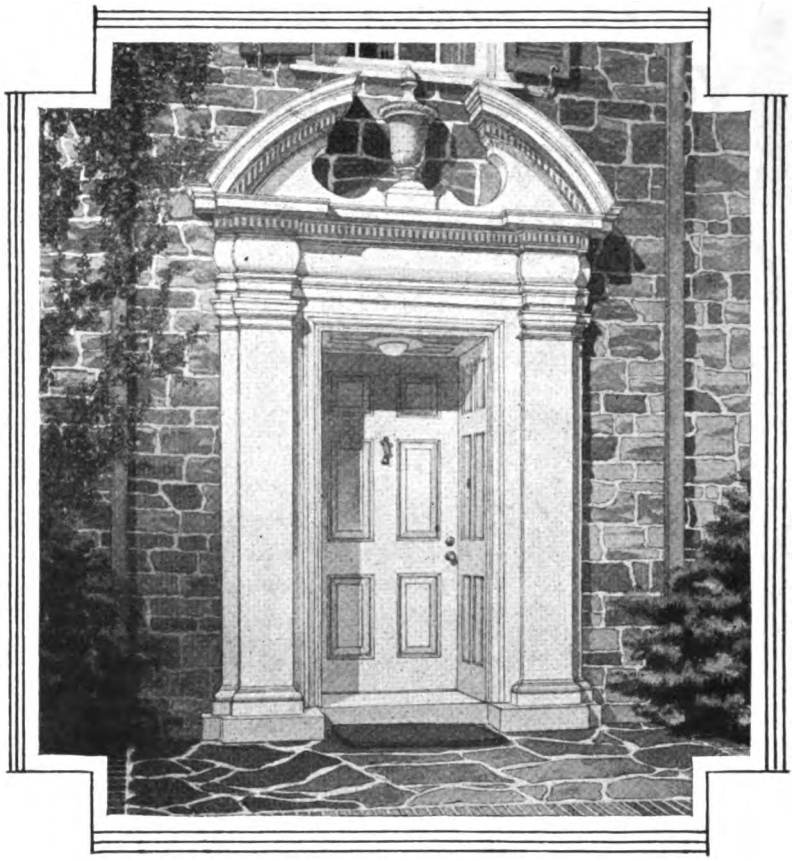
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SARGENT

LOCKS AND HARDWARE

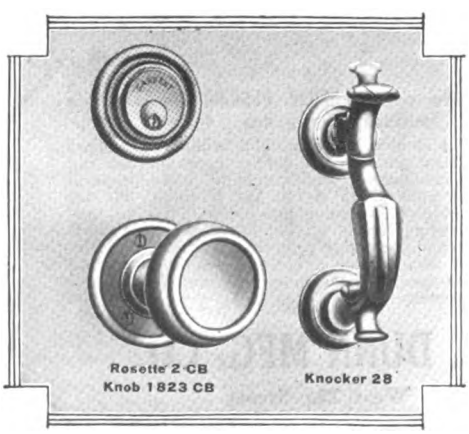


They are as staunch as this doorway . . . as lasting as this home

THE Sargent Cylinder Lock is on guard here. It is not big or brutal looking. All that's seen of it is the face and little circular key plate on the door. But it embodies powers of resistance that add to peace and comfort. It is the finest development of the pin-tumbler lock principle—wrought from honest metals by skilled workmen with such mechanical accuracy that smooth operation and absolute security are assured as long as your building stands. When applied to front, side, back and garage doors it may be master keyed so that one key will open all.

Connecting with the Sargent cylinder locks are knobs and handles in so many handsome designs that you can be sure of obtaining just the correct friendly patterns for all your entrance doors. So great a variety is there that even if you are an operation builder and are building a group of similarly designed homes you can select pieces and patterns which will bring an air of individuality and distinctiveness to the doors of each.

Use Sargent locks and hardware of solid time-resisting brass or bronze on every door and window. Don't stop at the entrance. Interior doors get even harder usage—only the best will do for them. Whatever the size of your building, no matter what your requirements, you will find Sargent hardware most satisfactory and most economical in the long run. Representative dealers in all cities.



SARGENT & COMPANY

Hardware Manufacturers

52 Water St., New Haven, Conn.

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Longer Lasting Roofs, Eaves-trough and Spouting are made of LEADCLAD

~sheet steel coated with pure, everlasting lead.

Specify it for rustproof, trouble-proof jobs



Mail this coupon for full information

WHEELING METAL & MFG. CO.,
Wheeling, W. Va., Dept. B.

Gentlemen:

Please mail us without obligation your booklets, describing Leadclad and its superiority as a weather, rust, roof and smoke acid resistant.

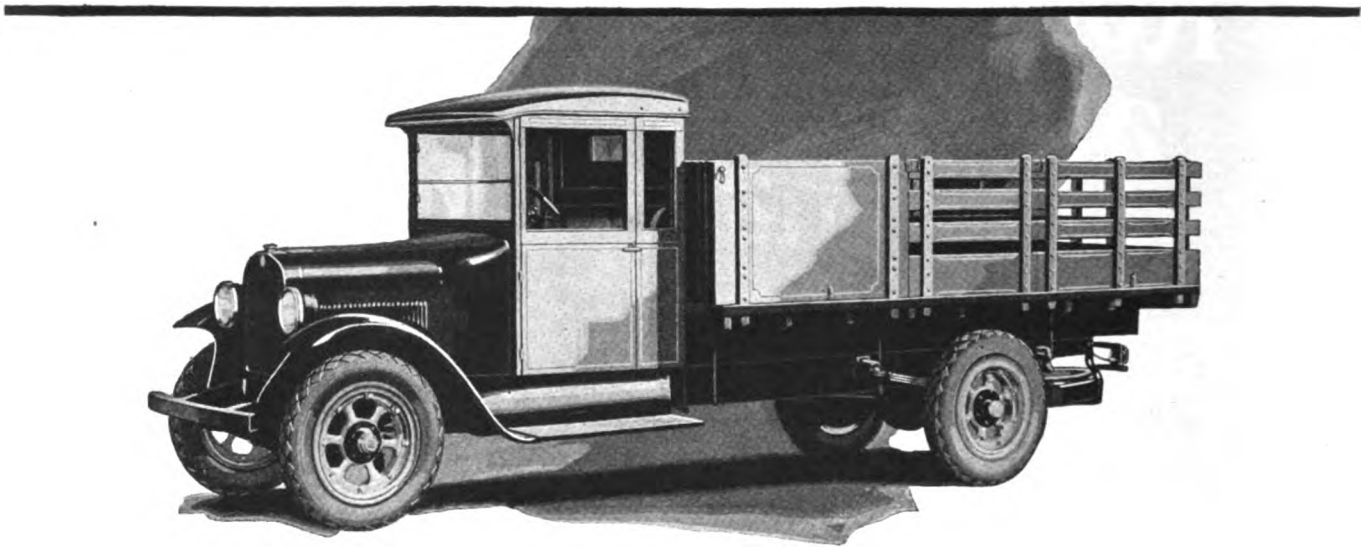
Name .....

Address .....

Business .....

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A BETTER, STURDIER 1½-TON
Increased Earning Power



Demand for Graham Brothers 1½-Ton Truck increases steadily, rapidly. Owners profit by its economical, dependable work under all conditions of road and load. Buyers buy again. Fleets grow.

It has earned its preference by its earning power.

Now an improved 1½-Ton assures even greater value at the same low initial cost.

Graham Brothers consider a change an improvement, only when it adds definitely to the truck's value. These improvements do—

Seven-inch Frame—a sturdier chassis and longer truck life.

Steering Gear—greater ruggedness and easier handling.

Motor—recent improvements adding to its long life and dependable performance.

Shorter over-all Length—without reducing space for load.

Longer Brake Life—four brake bands, operated by service pedal, increase life of linings and drums.

Dodge Brothers Dealers everywhere will show you this better, sturdier Graham Brothers 1½-Ton Truck—and show you its capacity for work in your business.

Graham Brothers Trucks, with Dodge Brothers ¾-Ton Commercial Cars, meet 91% of all hauling requirements.

1½-TON CHASSIS - - - - - - - $1245
2-TON CHASSIS - - - - - - - - 1445
(Disc Wheels With Dual Rear, Optional)
1-TON CHASSIS (G-BOY) - - - 885
f. o. b. Detroit

GRAHAM BROTHERS TRUCKS

SOLD BY DODGE BROTHERS DEALERS EVERYWHERE

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KVP

BUILDING PAPER INVITES COMPARISON ON INSULATION AND PERMANENCY

it will outlast any building in which it is used

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich., U. S. A.

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Large, Airy Windows Make Better Bedrooms

BIG WINDOWS and lots of them in the bedroom provide the outdoor air that promotes better sleep and rest. Sunlight means better sanitation, fewer breeding places for germs and vermin.

More and larger windows make the whole house more cheerful, from cellar to attic. Sun parlors have become a convenience not to be overlooked and even in the cellar the windows are becoming as large as the ordinary window of today.

Give the glazing of the house, barn or garage you build a great deal of thought. Do not be satisfied until you are assured in your own mind that you will provide the maximum in window openings and glazing and also in the glazing of doors, book cases and china cabinets.

There is greater beauty, greater satisfaction and much less ultimate expense in "The BEST Glass." It is stronger, flatter and remarkably free of defects. Yet it costs no more.



"The BEST Glass" cuts perfectly on both sides and can be glazed with either side out.

AMERICAN WINDOW GLASS CO. PITTSBURGH, PA. U.S.A.

AMERICAN WINDOW GLASS CO.

The BEST Glass — World's Largest Producer of Window Glass — The BEST Glass

GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES

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The Mortar for All-Winter Work

EVEN winter time is work-and-profit time for the thousands of contractors who use BRIXMENT for brick, tile and stone masonry . . . . Because the same qualities that keep BRIXMENT mortar so smooth and easy-working prevent an excess of moisture and enable the contractor to properly time the set so that it takes place before freezing can occur. And once a BRIXMENT joint has set, it remains permanently strong, sound and safe . . . . No free lime to cause scaling or popping—will not fade mortar colors . . . . Ask for further details on BRIXMENT for winter use.

Try BRIXMENT *and Know*

One part BRIXMENT mixed with three parts sand—either by hand *or in your concrete mixer*—makes the smoothest, fastest-working mortar that ever slid off a trowel . . . . Contractors report savings of $1.50 to $2.50 per thousand brick in laying time alone . . . . Stays easy-working on the mortar board longer and keeps your workers satisfied . . . . A few buildings laid in BRIXMENT: New York Times Annex, *New York*; Biltmore Hotel, *Miami*; Senior-Junior High School, *Baltimore*; Fisher Body Ohio Company Plant, *Cleveland*, etc.



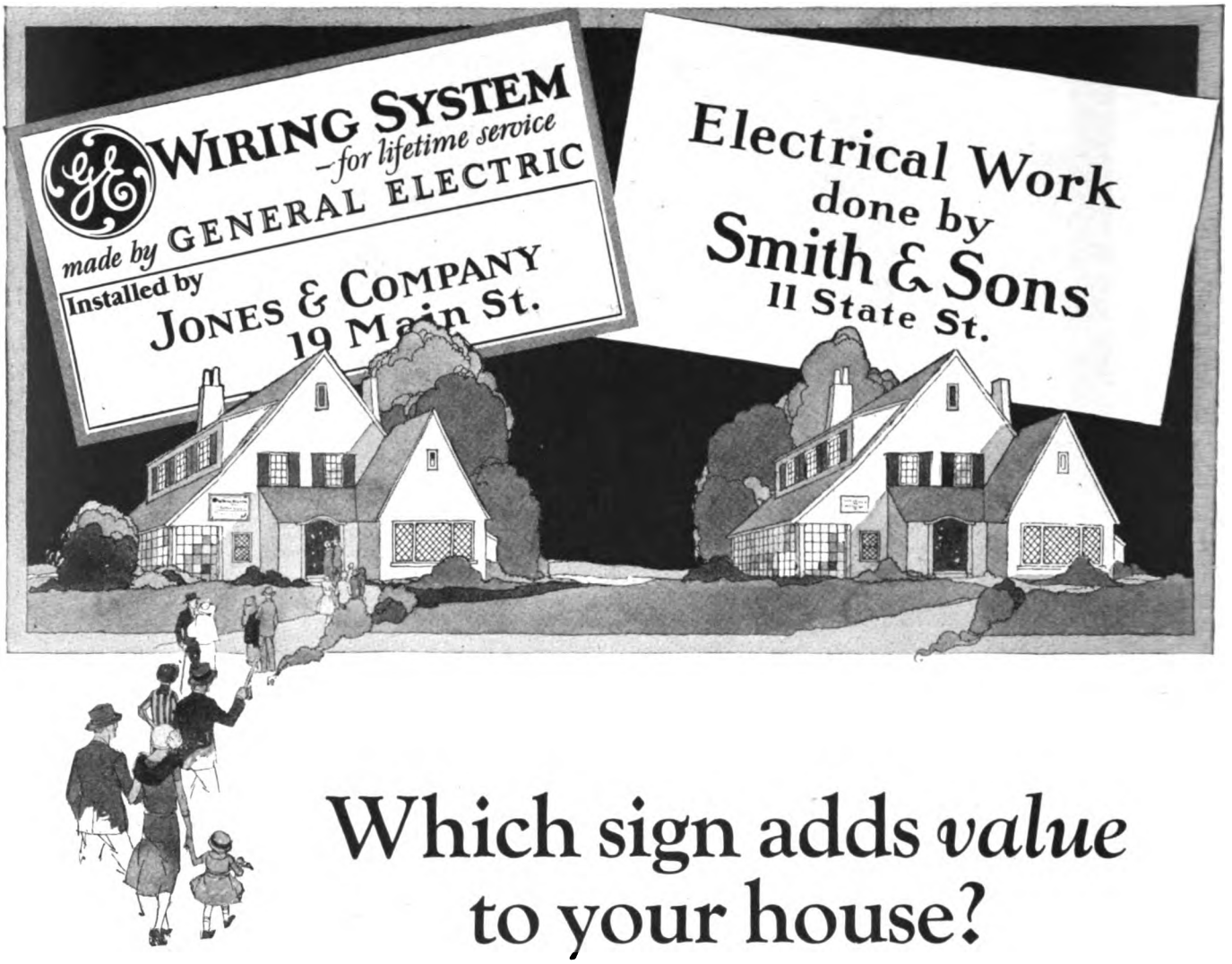
All Eastern Contractors Can Now Have BRIXMENT

To meet the constantly-increasing demand for BRIXMENT in the east, we have had to build another large-capacity mill at Brixment, N. Y. (formerly Akron Falls). This makes BRIXMENT easily available for every project in the eastern states . . . . Once you've tried BRIXMENT, you'll never go back to the old methods. If your dealer is not yet supplied, write for quotations direct. LOUISVILLE CEMENT CO., Incorporated, General Offices, Louisville, Ky.

Cement Manufacturers for Nearly a Century

BRIXMENT *for Perfect Mortar*

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Which sign adds *value* to your house?

The G-E Wiring System is a system of housewiring embodying adequate outlets, conveniently controlled, and using G-E materials throughout. If interested, address: Sec. BA-11

Merchandise Department
General Electric Company
Bridgeport, Conn.

There is probably nothing in home building today that appeals more to the buyer than a complete electrical installation. The crowds that stand in line to see a model Home Electrical prove it!

Experience has proved that a few dollars extra investment in a G-E Wiring System nets bigger profits through quick sale and increased value. The house with the G-E Wiring System sign invites the buyer because he knows it means quality—convenience—and comfort.

WIRING SYSTEM
—for lifetime service

GENERAL ELECTRIC

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, November, 1926

Business Men's Organizations

THE Department of Commerce at Washington has published a report giving the list of the commercial and industrial organization in the United States. This lists over 9,000 separate organizations.

The growth in membership of such projects is an important step in the development of the United States. Years ago successful men carefully guarded all their methods of working as trade secrets, today they find an inter-change of ideas beneficial to the whole industry and themselves individually. This is especially true in different branches of the building industry.

Every town having a few builders, should have at least a get together meeting of the builders and material supply men to talk things over ever so often. Of course, in larger cities, each should boast of a builders' exchange.

Unethical or Worse

IN a bulletin issued by a builders exchange we note a little item: "It is due to your fellow members to give them contracts for sub-work-in the event of your having used their figures in securing your contract!" Nothing fairer can be said, not to do so is really dishonest.

On a par with this is the practice of certain speculative builders asking an architect for some sketches or suggestions for a proposed building and then take these to some "cheap John" draftsman to put in shape and make a plan that will pass the building department and help get the loan.

Such practices are more than unethical, they are down right dishonest.

Using the Country

THE need for practically everyone of the human family to work is the reason why living quarters were located near the places of work. People couldn't walk far.

An improvement came when transportation advanced so that workers could live at a distance and still reach their place of work within reasonable time. Fortunately today distance has become less of an obstacle.

The use of cheap automobiles and the bus system now growing in practically every town has made transportation easier and workers today have the benefit of working in a city and living a distance away from it, thus making for better and more helpful living conditions.

This tendency to go suburbaniting will be an evolution any process that will gradually get rid of what is now termed the "slum" sections of our city.

One indication of this trend towards the country is to be found in the City of New York where the population of its most densely populated borough, Manhattan, has decreased a few hundred thousand,—enough people to make a good sized city.

This, however, has not taken away from the prestige of this city as practically all the residential buildings have been replaced with commercial structures. The suburbs of the city have grown and the building industry has profited both ways.

The High Cost of Cheap Plans

BY cheap plans we mean incomplete ones. In most cases an owner thinks he saves money by getting something cheap in the way of just a plan and loose specification.

The contractor has to give a complete building and, therefore, he figures accordingly, and in many cases not knowing what will be wanted he must necessarily figure enough so as to play safe. In such cases the owner certainly pays high for his cheap plans. One big waste in the building construction work is in this bidding on something that *might* be called for.

Sometimes the owner is not always to blame as there are still a few unprincipled and incompetent architects and engineers who produce such imperfect plans and specifications that the bidder is at sea to know what is meant. Dimensions and information are lacking in drawings and specifications, therefore the bidder must add on sufficient to take care of contingencies and errors.

The owner in this case pays double,—he pays his architect or engineer for plans thinking he is getting good ones, and he also pays the contractor extra because of the poor work on plans. Result: a building more expensive than need be, a dissatisfied owner, a harrassed contractor, and an overpaid designer, who caused all the trouble, going free.

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Some More of

THE BEST SELLING HOMES



Designed by R. C. Hunter & Brother
Architects, New York

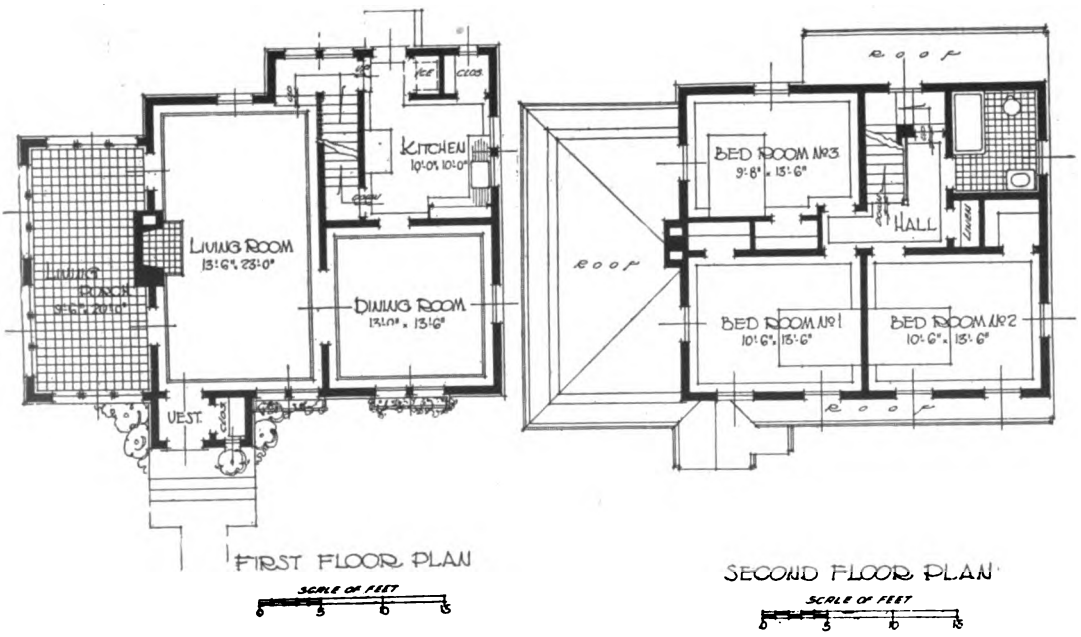
IN accordance with the terms of our campaign to find the Best Selling Homes in America, fifteen Certificates of Merit are to be awarded to builders of that number of Best Selling Homes that were judged as the next best to the ten Gold Medal Winners announced in our October issue.

In selecting these fifteen Best Selling Home designs, the judges followed the same method as used in the selection of the Gold Medal Winners announced last month.

In addition to the Certificate of Merit awarded to the designers and builders of these fifteen home designs, they each will receive a subscription for life to BUILDING AGE AND NATIONAL BUILDER.

It is our hope that the publishing of these designs will give builders throughout the country some of the ideas that makes a home sell in each different locality.

The greatest latitude has been taken by our judges in making these selections remembering the impor-



HERE is a house built from one of the most popular plans issued in stock plan form. Over 150 houses have been built from this design. The splendid and economical arrangement of rooms combined with a pleasing exterior makes this a safe house to build in almost any development as it will be sure to sell usually before it is completed.

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Here are the Certificate of Merit Winners

¶ In this issue we present five of the winning homes awarded a Certificate of Merit. In succeeding issues, we will publish the other ten of these home deisgns, so that our readers will have a chance of inspecting some of the Best Selling Homes in America.

IN AMERICA

tant fact that all kinds of people comprise the house buying public and their varied tastes and purses need to be satisfied. There is the family that requires but a modest home. Some prefer the bungalow type, some others will want a small two story detached cottage, again some want a stylish home set in large grounds, others prefer a two family house, etc.

Our judges had these various people in mind in making their selections and they have tried to pick out types from each particular house division.

It is a curious fact but many of the high priced houses costing over $10,000 were also good sellers, as they sold quite readily. People are not unmindful of the best things to be had in the building line. Cheapness is not everything.

There are always people whose means prevent them from having the best of everything. Their wants, however, must be satisfied by American builders. On the other hand, there are people with means enough to purchase the best of everything.

To build the right house in the right neighborhood is a matter of sound business judgment. The right house in the right neighborhood will sell quickly and that particular design with perhaps some modifications will become one of the best selling homes in America.


THIS IS TO CERTIFY THAT

HAVING DULY ENTERED INTO COMPETITION WITH FELLOW BUILDERS FROM ALL PARTS OF THE UNITED STATES FOR SUCCESSFUL ACCOMPLISHMENT IN BUILDING ONE OF THE

BEST SELLING HOMES IN AMERICA

IS HEREBY AWARDED THIS

CERTIFICATE OF MERIT

BY BUILDING AGE & NATIONAL BUILDER

FOR HAVING ERECTED DWELLINGS WHICH MEET THE REQUIREMENTS OF ARCHITECTURAL BEAUTY, SOUND CONSTRUCTION, PRACTICAL UTILITY AND PUBLIC ACCEPTANCE AND THAT HE IS ENTITLED TO FULL RECOGNITION FOR THIS ACHIEVEMENT FROM HIS FELLOW CRAFTSMEN AND AMERICAN HOME OWNERS

IN WITNESS WHEREOF WE HAVE SET OUR SIGNATURES AND CORPORATE SEAL

PRESIDENT

SECRETARY

EDITOR

HERE is a facsimile of the Building Age and National Builder's Certificate of Merit awarded to each of the fifteen builders and designers named in the accompanying list. The engraving is in sepia ink printed on India tint vellum with corporate seal in gold. Similar Certificates were also awarded to each of the Gold Medal Winners mentioned in our October issue.

E. W. Barnes
Montreal, Canada

City Builders Finance Company
Miami Beach, Florida

Harry Clement
Muskogee, Oklahoma

William De Jonge
Chicago, Illinois

Ernest M. Folger
Lynn, Massachusetts

F. H. Gathercoal
Wilmette, Illinois

Hercules Construction Company
Milwaukee, Wisconsin

R. C. Hunter & Bro.
New York City

P. Ligtvoet
Kalamazoo, Michigan

J. Lloyd Lill
Rochester, New York

The Morgan Company, Inc.
Minneapolis, Minnesota

Jesse L. Sanders
Springfield, Illinois

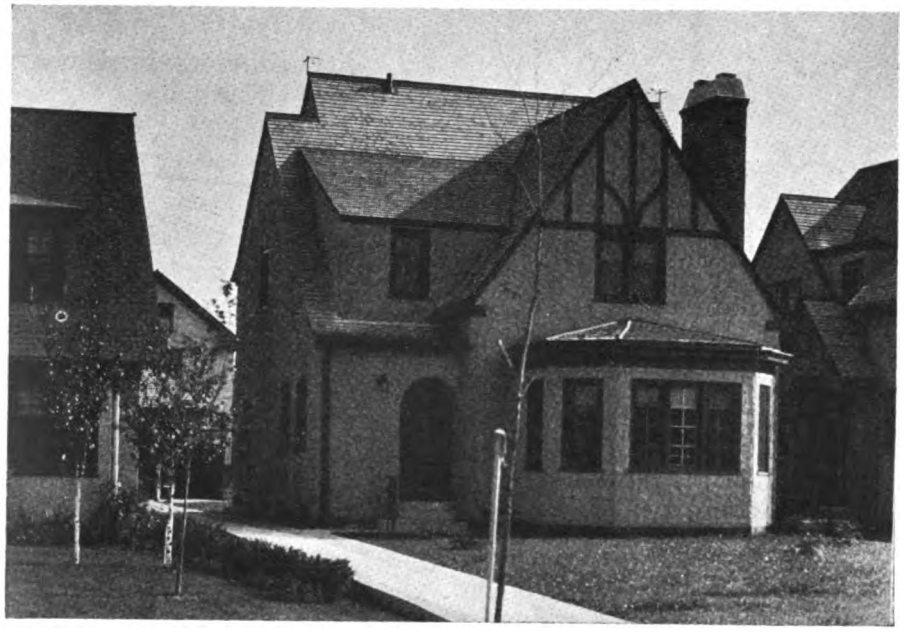
Samuel Smulian
Baltimore, Maryland

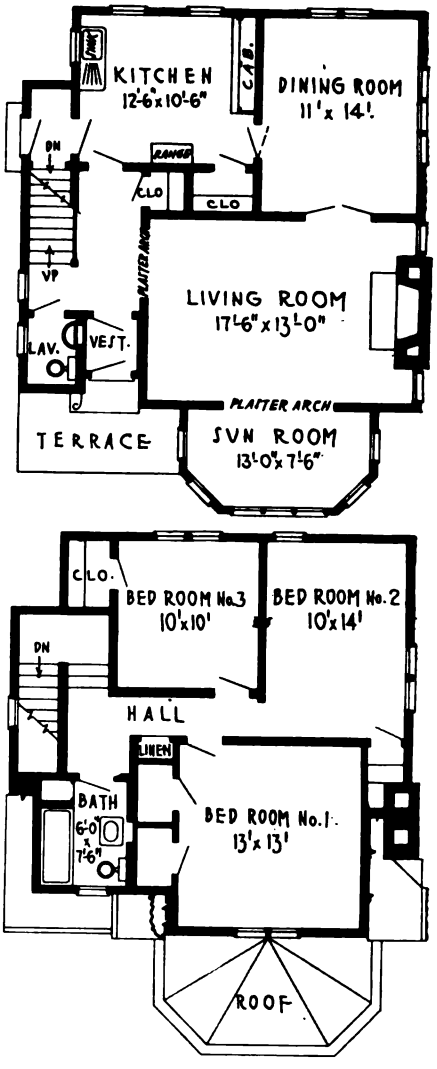
P. M. Thompson
Manasquan, New Jersey

William I. Winslow
Douglas, Wyoming

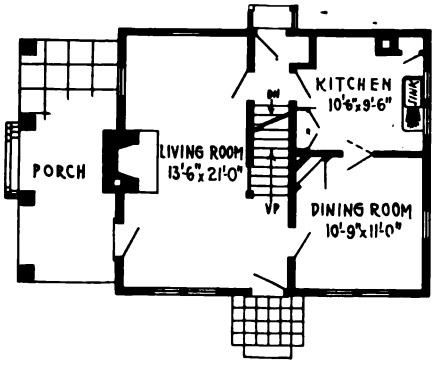
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Designed and Built by Hercules Construction Company Milwaukee, Wisconsin

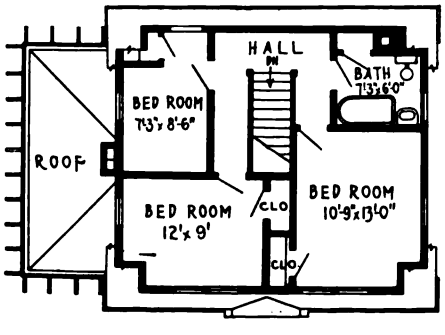




CHARMING in its touches of an English rural Villa is this prize design. It sold for $15.000 complete on property valued at $2,400. Examination of the floor plans will reveal there is no waste space, as the room layout is combined with an attractive architectural exterior design. Ten of these houses were sold within one year, each built in different and widely separated localities to discriminating buyers.



Above is shown first floor plan of the simple Dutch Colonial Cottage, and below the second floor. Six conveniently laid out rooms with ample closet space has been provided



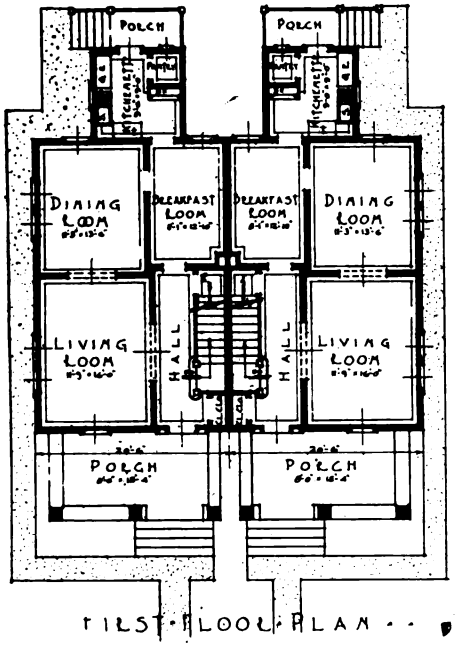
Designed and Built by P. M. Thompson Manasquan, New Jersey



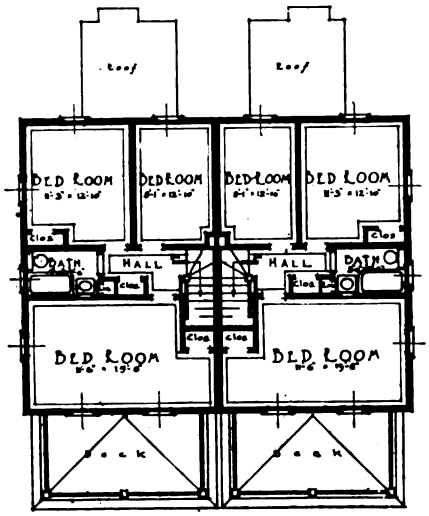
QUITE an attractive Dutch Colonial Cottage home that sold for $6,400. Five of these homes were erected and sold in one year, sales being made quickly as these houses were snapped up before completed. The price includes everything complete, full cellar, plumbing, etc.

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Designed and Built by Samuel Smulian Baltimore, Maryland



FIRST FLOOR PLAN

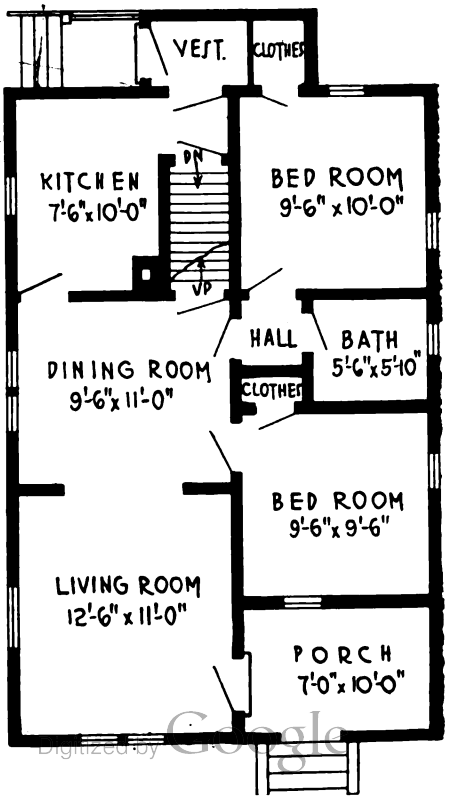




A HOUSE that sells before it is completed can rightly be classed as a Best Selling Home. These twin cottages were sold for $7,500 each compelte before completion. Practical and convenient room lay out has been provided at a minimum of expense. The breakfast room is one of the features that made selling easy.

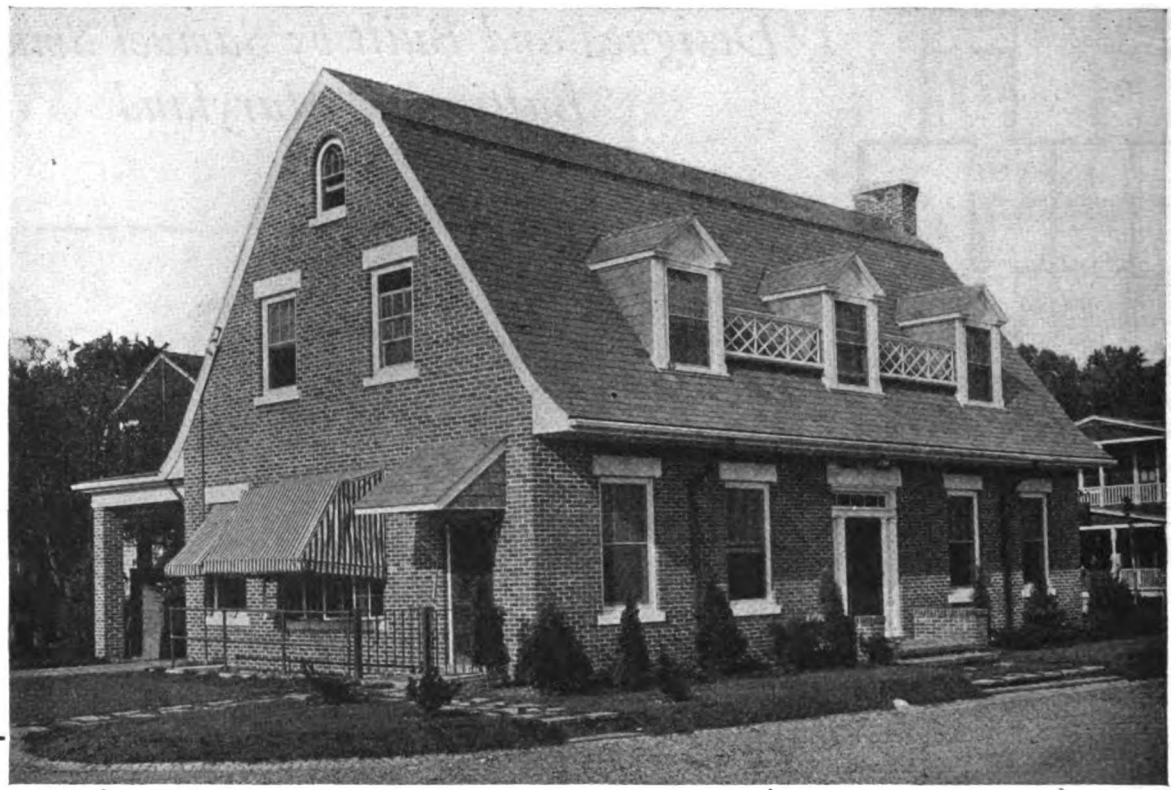
Built by The Morgan Company Minneapolis, Minnesota

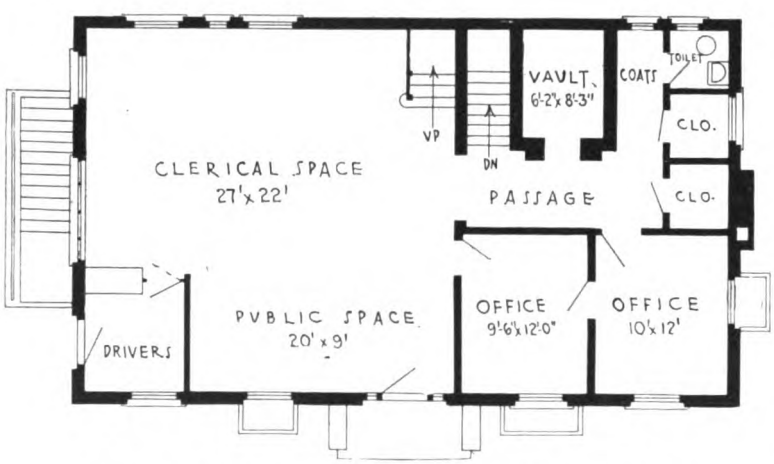




A MODEST little bungalow with a practical five room lay out. Thirty-six of these bungalows were built and sold in one year and practically everyone of them sold before completion. The price including lot was $5,400. A pleasing exterior has been provided.

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B. V. White, *Architect*, New York

An Idea for a Builder's OFFICE

Stephens-Miller Co.
Building Supply Dealers
Summit, New Jersey

MEN who sell to builders are discovering that trim, well-ordered offices and buildings bring more business. This structure, approximately 30x50 ft., houses the clerical force and display space of the Stephens-Miller Co., Summit, N. J., enterprising supply dealers. The first floor, as shown, is given over to general and private office space, a vault and a coat room. Upstairs, a display room, directors' room and lavatory. An arrangement very similar to this would serve admirably for a building contractor. The design has every appearance of a model house and could be centrally located and used for a permanent headquarters and display room. Perhaps the upstairs could be given over to the best advantage to model rooms. Or to an exhibition of good construction details. The thought is worth consideration as a means of bringing in more business or calling attention to homes ready for sale. In neat, clean offices the builder can best talk over plans with the prospective buyer.



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THE JAMES RIVER COLONIAL

A Southern Style

Tenth and Last of a Series on Period Treatment

By H. A. Simons

The Correct Treatment of EXTERIORS and INTERIORS In Period Design

THE James River Colonial usually is a brick style. Those romantic old manors, such as "Westover," "Shirley" and "York Hall," depend for their exterior beauty largely on the rich mellowing tones of brick walls.

Occasionally, as at "Tuckahoe," we find examples in which two materials are combined in the same house—the whole exterior of wood except the ends of the wings which are brick—but the most characteristic work in the style is of brick. Sometimes this material is diapered like the early English work. Occasionally there are belt-courses or door- and window-treatments of white stone. For the rest, the brick laying is plain and without frills.

There are two types of plan for this style. One is a simple rectangle, and this is the more economical for the modern home-seeker to attempt. The other is the H-plan, two wings of equal size connected by a wide hall which may serve as a dining-room, music-room or even ballroom.

Most James River Colonial homes have two full stories with an ample attic. But some correspond to the present-day "story and a half," with covered walks leading to a smaller cottage at either side. This treatment could be used today, one of the out-houses being the garage and the other a guest-house or servants' quarters.

Regardless of the height of walls, the roof is a rather steep gable which gives an effect of dignity. It is of slate, and usually has dormers set in symmetrical relation to the windows on the facade. Sometimes the severe height of the gable is softened by a hipped treatment. The chimneys are tall heavy rectangles entirely plain except, perhaps, for some unusual brick-setting in their caps.

Windows are large. We shall see, when we observe the interior, how important are these openings reaching almost from floor to ceiling. But on the outside the treatment is simple: white double-hung sash with good-sized panes instead of tiny ones, typical of early New England residences, hung in white frames set back from the face of the wall. As in other Colonial

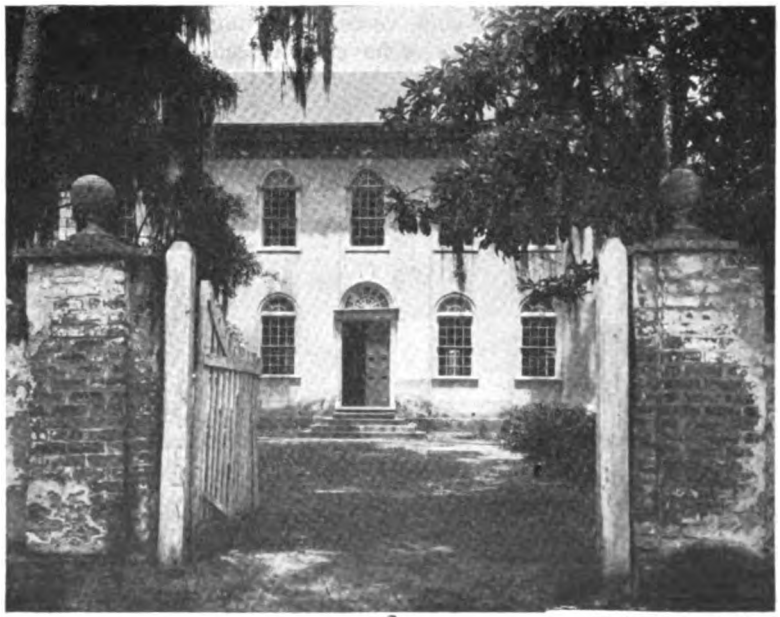
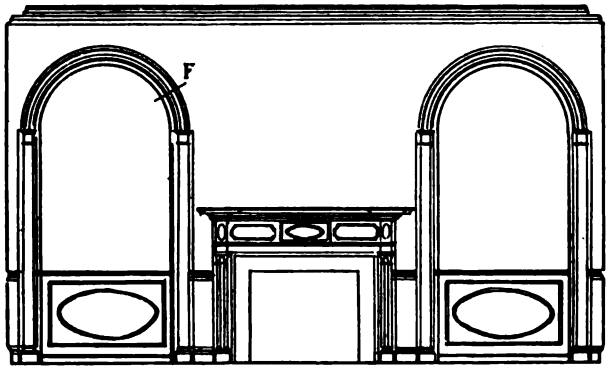


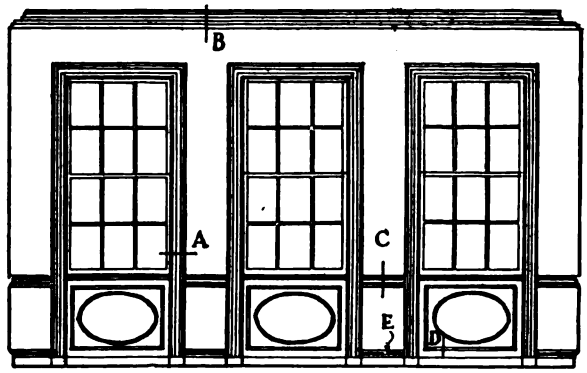
Photo Tebbs & Knell

IN the south, particularly in the section around New Orleans, this type of home is common. It is not quite as severe as the type found further north. As in the case of most homes following this style, it runs two full stories with an ample attic

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One elevation of room illustrated below



Showing wall at right of room below

styles, green shutters are common; and sometimes there are low arches over the window-heads, perhaps with some simple embellishment of brick or stone.

These windows are arranged symmetrically in relation to the dormers above and to the entrance. This last is tall, set in a simple enframement of white wooden pilasters or engaged columns. We shall hear later of fanlights and sidelights, but these have no place in the James River Colonial style. Here the entrance is sheltered by a little porch, one story high, supported by slender wooden columns.

Inside such a house, we find a hall running the full depth on both floors. The staircase runs up one wall to a landing and, from that to the second floor, along the other side. Although simple, this staircase has points of beauty. The risers are white; the treads, painted dark or in natural color. From an elaborately turned newel post a dark handrail runs up, supported by white balusters which are turned in a variety of profiles; as many as three or four patterns may be included in the same flight. And generally there is some carving or plaster decoration on the step-ends.

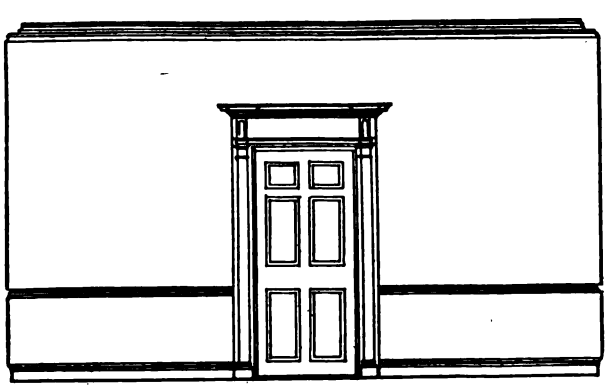


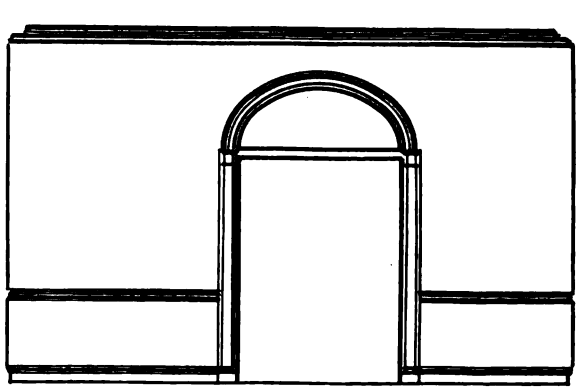
Room in Baltimore home reproduced in Metropolitan Museum of Art, N. Y.

There are some cases where double or twin staircases have been used to equally good advantage.

Modern hardwood floors might be used in a home of this style, though parquetry in one of the principal

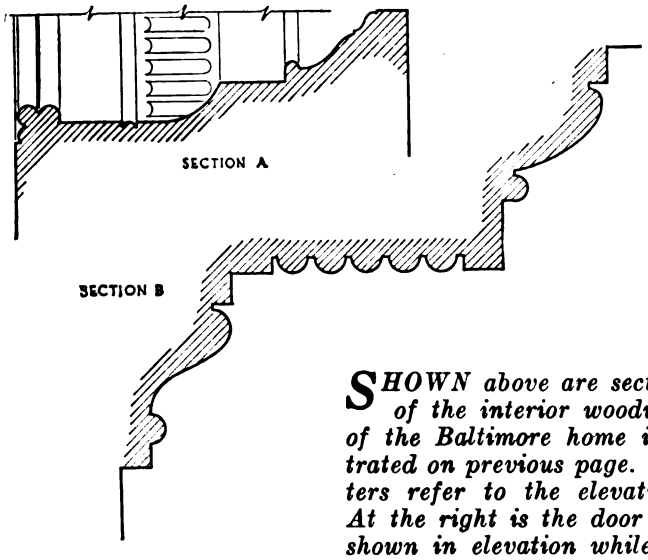
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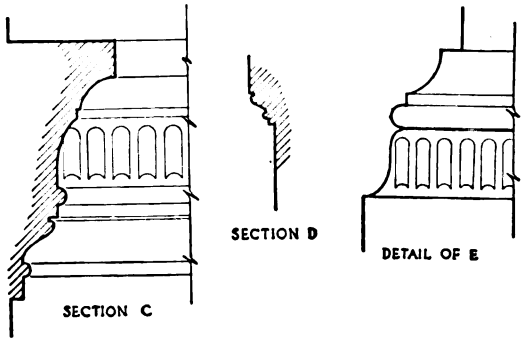




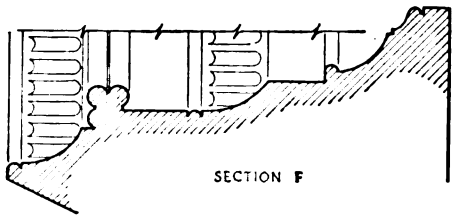
Two wall elevations of the Baltimore home shown above

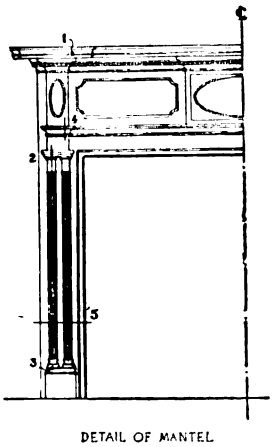
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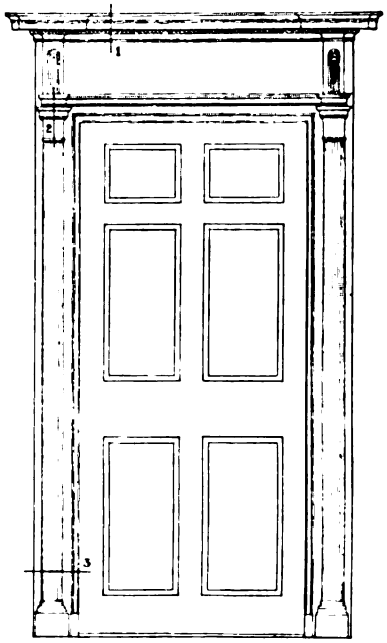


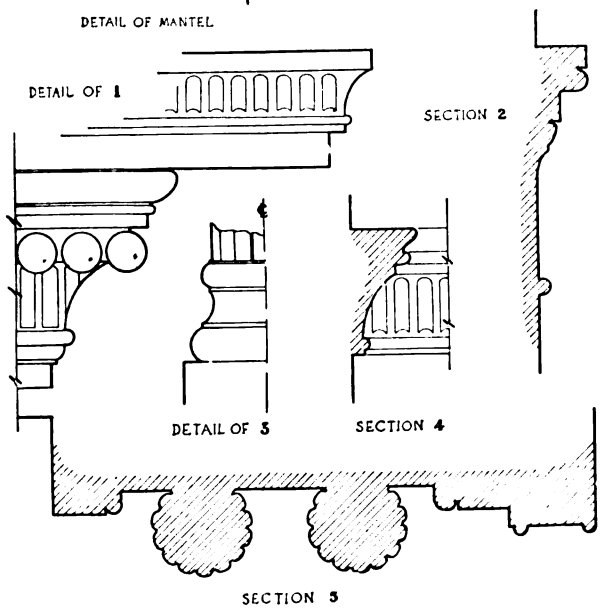


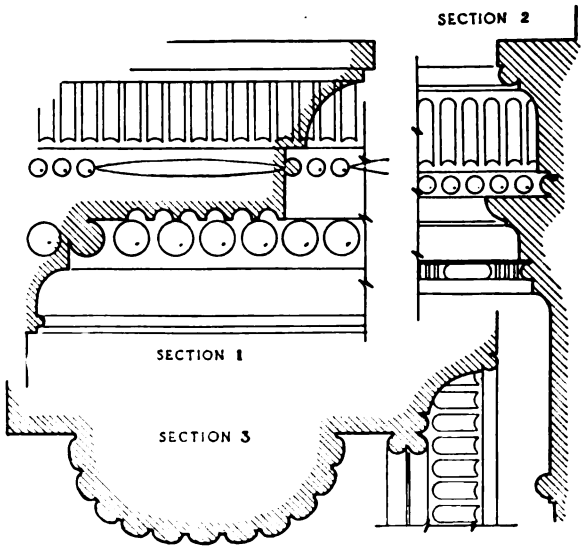
SHOWN above are sections of the interior woodwork of the Baltimore home illustrated on previous page. Letters refer to the elevations. At the right is the door also shown in elevation while below at the right are corresponding sections. For modern use these may be simplified to some extent but it is essential that the proportions be kept to maintain the true beauty of this style of architecture. Details made from measured drawings of the original room











DIRECTLY above is a detail of the mantel in the Baltimore home. Numbered to correspond are sections of still more exact details for the builders use. In James River Colonial as in all our own early American style, the proportioning of the mantel is of utmost importance

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TRUST

Building for Mutual Trust Company of Philadelphia

Heacock & Hokanson

Architects

McNeill Construction Co.

Builders

THE trust that a Bank's depositors have in the security of the institution is best symbolized in the building itself. It is for this reason that one finds the banks of greatest capital and most successful business quartered in fine, dignified structures. Just as the aggressive merchant makes his shop an attractive, attention-getting factor, the bank, on the lookout for new depositors, provides the impressive type of home that is associated with financial institutions.

It must be a sturdy, well-built structure to invest in the passer-by the thought of Security. It must have a certain air of prosperity to convey the thought that it is a successful bank and one worthy of the business.

In designing and building a new home for the Mutual Trust Company in Philadelphia, these important thoughts have been kept uppermost. Though the frontage on the street where entrance is located is not extensive, the building is not cramped nor does it appear to crowd its neighbors. There is a certain feeling of compactness about it that goes well with a small site.

On the cross street, most of the wall has been given over to windows. This shows real thought. The banking business—or at least that phase of its business that involves customers—is carried on during hours when natural daylight is available. Consequently, everything has been done to provide the interior with a maximum of natural illumination.

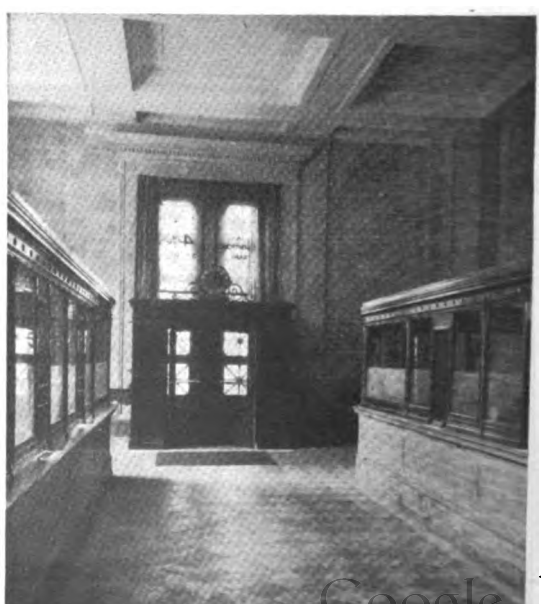
It is interesting to note how deftly the front entrance has been treated to give it added size and impressiveness. Too large an entrance means huge, awkward doors—difficult to handle and impractical during inclement seasons. This design has taken advantage of the steel windows above. The door is of average size and yet the detail as a whole is notably formidable in proportions.

Indiana Limestone has been used in conjunction with a granite base course for the exterior. Steel window frames are by International Casement Company. Above the line formed by the tops of these windows runs a frieze—decorative and altogether in keeping with the simplicity of the whole. The classical motif is introduced again (though not repeated identically) at the cornice. Silhouetted against the sky is a decorative treatment that is a



TWO interior views that show something of the simplicity of treatment. At left is illustration looking toward rear. Extreme rear is Officers Room

TO the right is a photograph taken from the rear and showing relation of entrance to customers' space and tellers' cages. This shows wall treatment of travertine with ceiling in recessed panels



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the Keynote of this Bank

definite relief from the usual parapet wall.

Entering the customers' space, the outstanding feature is travertine marble, skillfully used on walls and beneath metal grille work marking the division between tellers' cages and outside space. Panelling of ceiling is brought out to good advantage in all three interior views. Floor construction is hollow tile supported between I-beams.

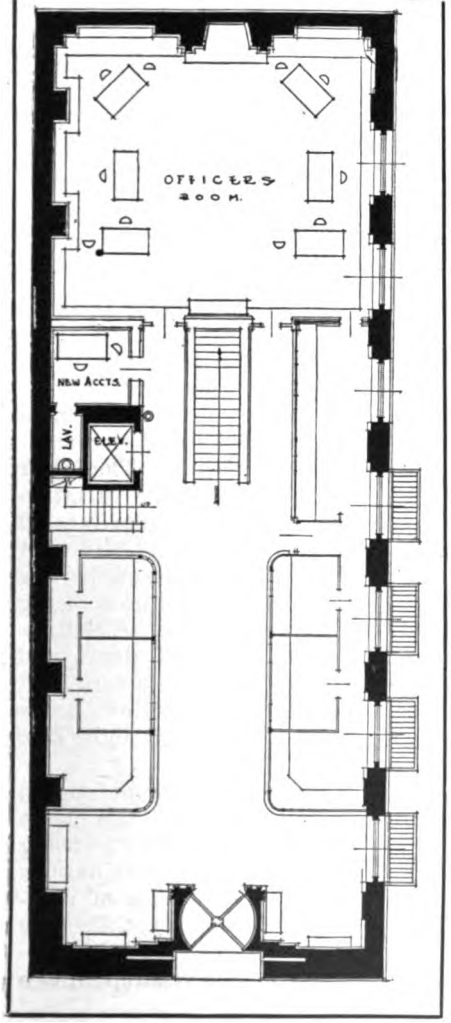
At the extreme end of building is officers' room with same wall and floor treatment. This is separated from general lobby by stairway to basement and suitable office gates. The effect however, is one of depth. This gives added size to a floor space that is not extremely large.

Where office space must draw from public space in any type of building this arrangement can almost always be used to advantage. The general impression of ample size is given while the absence of a ceiling partition is not unpleasant save where a great deal of noise must be contended with. In latter cases, it is usually best to sacrifice clearway for the sake of working efficiency.

Another feature of this interior that is worthy of consideration is the direct and effective manner of handling approach to vaults in basement. These stairs will be in constant use by the bank's customers and hence are located most accessibly.



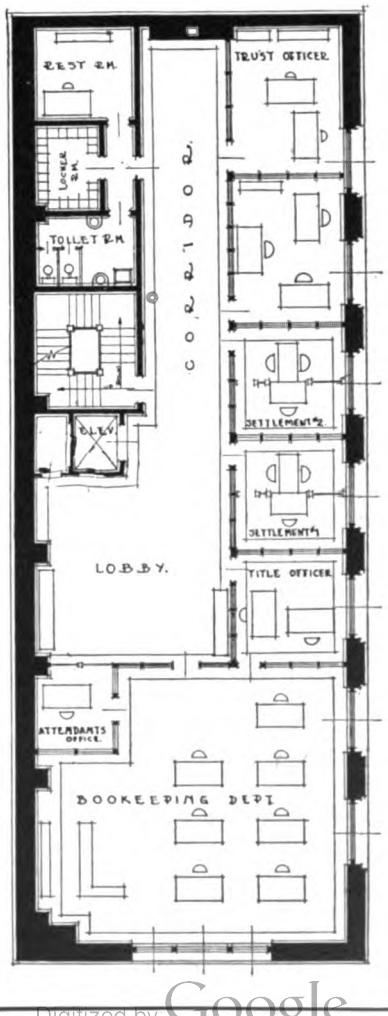
THE outstanding feature of officers' room is a richly handled fireplace. Above the mantel is an oil painting depicting William Penn negotiating with the Indians. It is seen that ample space has been provided for desks.. In reality this space for officers is an integral part of interior



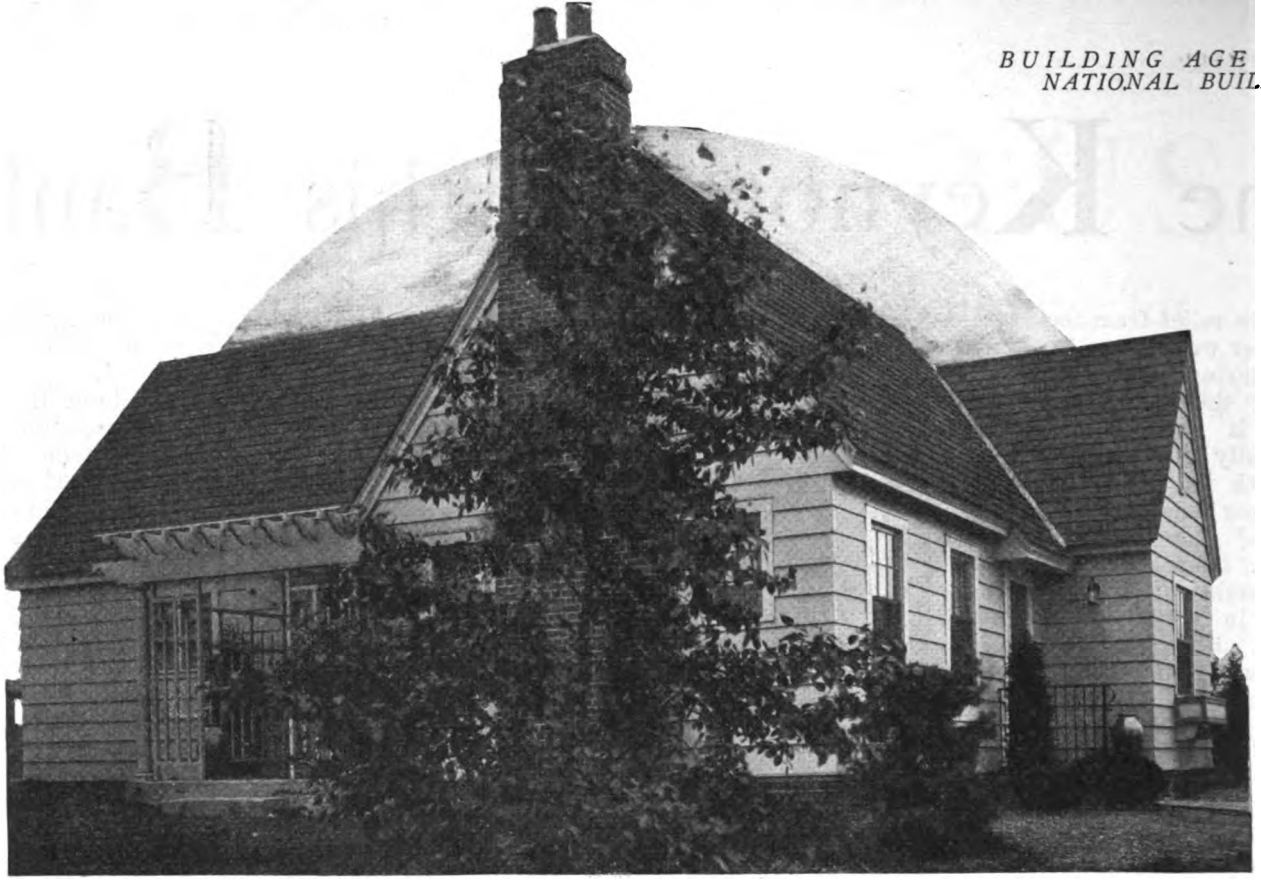
A GLANCE at these two plans will show the efficiency with which they have been laid out. Remembering that no small part of a bank's work is clerical and requires no contact with customers, most of the space has been given over to the working force. As described earlier, the first floor has been given added depth by elimination of a partition between officer's room and lobby. In addition to these two spaces, the plan provides ample room for tellers' cages—a bank of them on either side.

Upstairs, a bookkeeping department, offices, toilet and employees rest room divide the space. At the approach to elevator is a small lobby giving way to a corridor continuing to the back. This gives access to offices during business hours.

Offices have daylight; also the bookkeeping department. Rooms, little used such as lunch and rest rooms are allocated on the blind side. Considering this entire second floor from a standpoint of office layout it is unusually convenient.



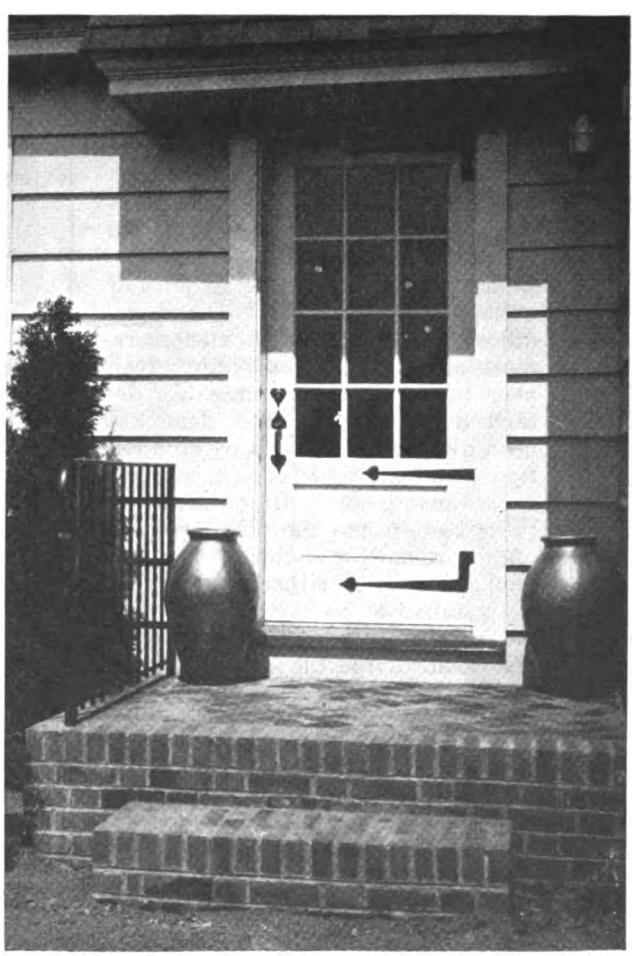
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Promoting Good Decorating

SAVE the Surface Home, the little Colonial story-and-a-half house at the Sesqui-Centennial was erected for the specific purpose of showing how the little house may achieve beauty and distinction by means of proper decoration and correct use of color. It was built by the paint and varnish industry of the country under the auspices of the Philadelphia Paint, Oil and Varnish Club.

Color is, of course, the chief point of interest in the little house, but the utilitarian aspects of paint and varnish are illustrated as well. No better exampie can be imagined than that shown in the bathroom of Save the Surface Home. Wallboard, embossed in tile-like rectangles, has been used for the wainscoting. High gloss enamel gives it a hard, durable, waterproof finish, which is impervious to heat or steam. In appearance and in usefulness this method of finishing the bathroom walls is as satisfactory as more elaborate



means, and the cost is surprisingly little.

The floors of the little house, over which hundreds of visitors have passed during the summer, demonstrate the economy and practicality of using sufficient good varnish.

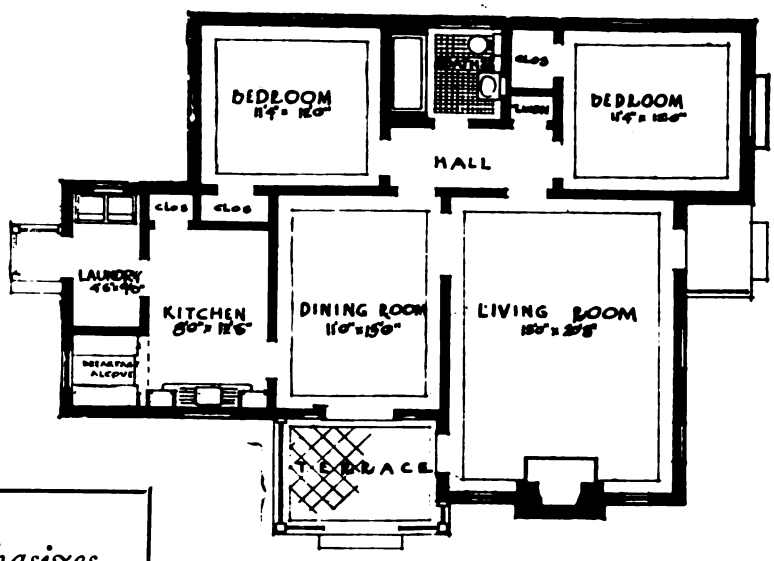
Save the Surface Home is planned and designed along Colonial lines. True to tradition, therefore, the exterior is painted ivory with a moss green roof and light blue green trim. The latter color is a slight variation from what is ordinarily used and is sufficiently different to add distinction to the color scheme without being either bizarre or eccentric. The mullions of doors and windows, the shutters and part of the window boxes are also painted a light blue green.

Lovers of color delight in the interior of the little house. Instead of using motifs and combinations that require rooms of palatial size to carry them, the decorators of Save the Surface Home have adopted two

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principles and stuck to them. "Simplicity enhances a small house" is one and "Correct use of color brings out the good points of a room" is another. Nowhere is a color scheme or a decorative technique used that is not in keeping with the style of the house and in each room the finishes for walls and woodwork have been selected with an eye to the lines and size of the room.

The living room is a story-and-a-half high with an open beamed ceiling. The woodwork is oak finished and the walls have a very practical, durable sand finish in deep cream color. In furnishing the room a dull green rug has been used and mulberry and green hangings against glass windows of cream. During



The plan of the Save the Surface Home is commendable in its own right. Two bedrooms, connected by a hall giving access to bath, lead to living or dining room. Kitchen has its own exit

Save the Surface Home Emphasizes the Value of Proper Decoration and Use of Color in Small Residential Work

at the Sesqui-Centennial

Albert N. Dobbins
Architect

the period of exhibition, however, the color schemes of the walls have been changed and are being changed to show the flexibility of painted wall finishes. By adding a sponge finish or glaze of Venetian red, one of the porposed changes in the living room scheme, more light and vivacity is added to the room without modifying or disturbing the color scheme of the furnishings.

Originally the walls of the dining room were a shimmering shade of robin's egg blue. The woodwork was ivory and, as a final touch, had a stripe of deep rose color on the outer moulding. The rug used in the room has a pronounced rose tone with which this use of color on the woodwork harmonized beautifully. To digress a moment—the use of color stripes on woodwork, especially that painted or enamelled white or ivory, is very new and interesting. It serves to emphasize slightly the lines of the trim and to contribute a little color variety to the room, yet it is not obtrusive or gaudy.

In modifying the decorative scheme of the dining room the rose color has been brought out further by a Tiffany finish which shades a deep rose color into the robin's egg blue of the original finish.

Without a doubt the kitchen is the most original room in the house. It renounces the hospital-like white treatment and puts in plenty of

(*Please turn to page* 140)

Original wall treatment of master bedroom used a pale green tint. Woodwork is ivory stripped along outer molding with lavender grey. A second treatment calls for a sponge finish over grey to bring out lavender



Living room is story-and-a-half with open beam ceiling. Woodwork is oak finished with walls sand finished in deep cream. Dull green rug and mulberry and green hangings used in contrast to cream windows



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A Gem of the Rockland

A Lesson in Winter Building

IN addition to being a highly attractive design, the construction of this home is extremely interesting in two respects. First, it shows that residential construction during the winter months is both possible and profitable. Practically all of the interior work on this residence was carried on during cold weather and the building made ready for occupancy by Spring.

Secondly, the design is very much in line with the principles tried out by Mr. Ernest Flagg during the last few years. The work of Mr. Flagg, best known as architect of New York's Singer Building, has been of an experimental nature in small home construction. In the issue of March, 1922, a detailed account of his work was published. Several quite radical ideas were brought out in line with economies advocated for small home building.

The foremost principle upon which Mr. Flagg has worked has been to reduce wasted cubical content. (About 30% of the cubic contents of the ordinary small house is wasted in cellar and slopes of roof.) In many of the designs created by Mr. Flagg cellars and attics have been omitted. Heating plant is located on the first floor level with a storage room adjoining.

This home follows much the same architectural design and is eminently free from waste space. Mr. Flagg's experimental homes were constructed all of stones that are almost entirely impervious to moisture. The inside walls were plastered directly on the masonry without furring. The designer of the building illustrated has used stone effectively but has not gone to the extent of omitting the plaster base. The inside walls have been furred and plaster used over wire lath.

To return to the question of winter building the difficulties involved are mostly results of prejudice. This home was constructed in a climate particularly rigorous during the winter months and yet the progress of the work was slowed up to only the slightest extent. Most of the masonry work was completed before the temperature dropped below freezing and inside the enclosed building the work went on in comfort and with efficiency.

The type of construction matters very little if the various steps are planned to compete with decreasing temperatures. Accepted practice demands that most masonry work be stopped when the temperature reaches 34 degrees on a falling temperature and should not be started until the temperature reaches 30 degrees on a rising temperature. In other words, safe working conditions are within a range of 2 degrees on either side of freezing.

The plan of this stone residence has been the result of a comprehensive survey of the needs of the occupants for years to come. The front door leads into the low vaulted vestibule from which one may enter either kitchen, breakfast nook or living room. The kitchen has its own outdoor entrance at the side of the house, and thus is assured of proper light and ventilation at all times.

To the right of this outside door, secluded in a little alcove is the furnace. Fuel is drawn through a small opening from coal pocket beyond. To one side of the furnace a small laundry room has been provided, while the laundry space also includes a refrigerator. Still further beyond is a breakfast nook illuminated by natural light.

Warren S. Matthews

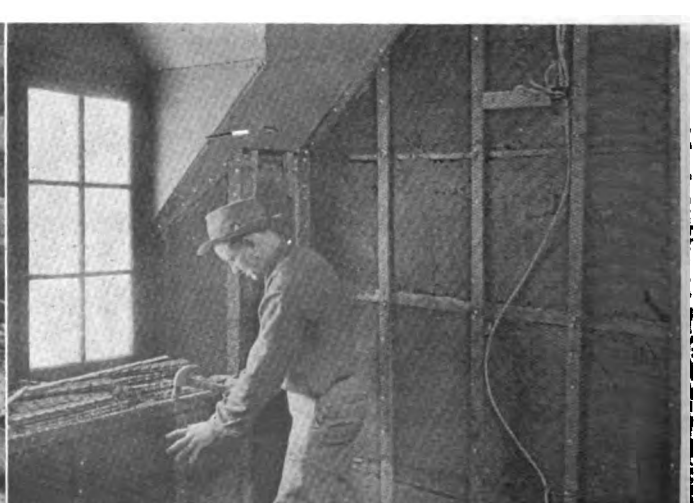
Architect

Leon Soderston

Builder and Owner

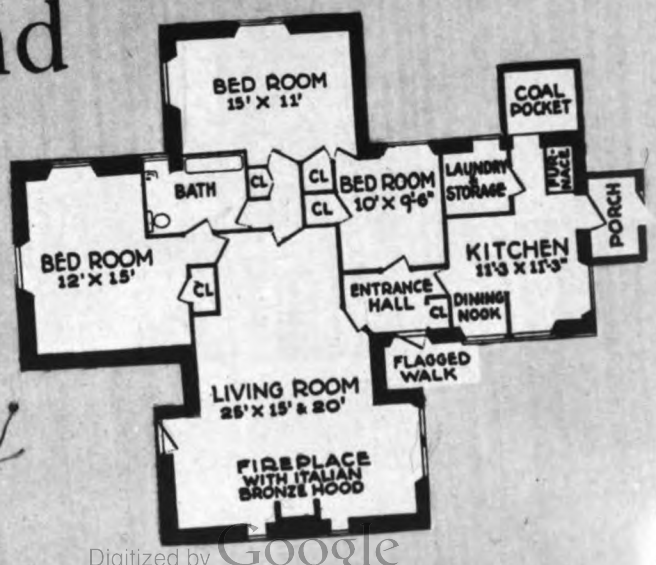
Residence in Homewood, Yonkers, N. Y. a development of The Homeland Company of New York.





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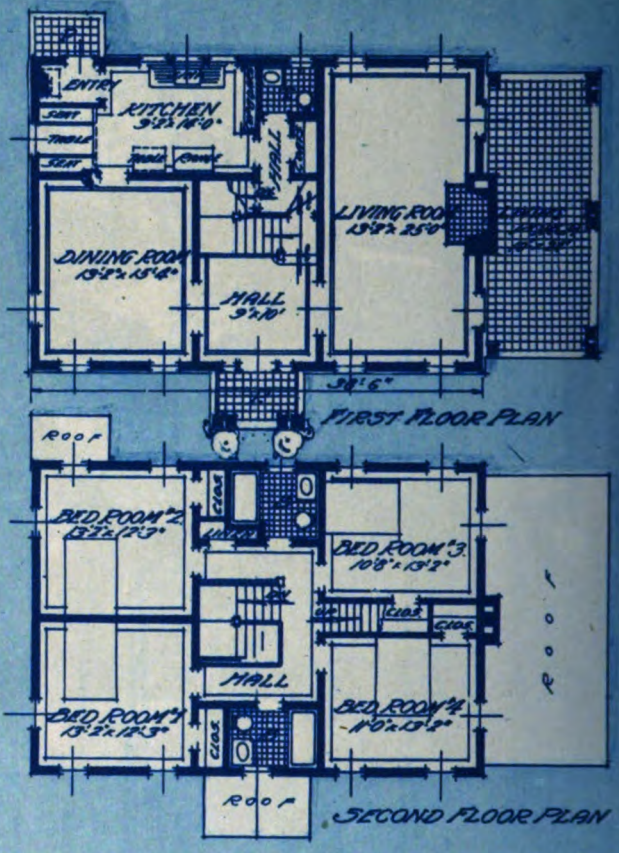
A Gem *of* the Rockland

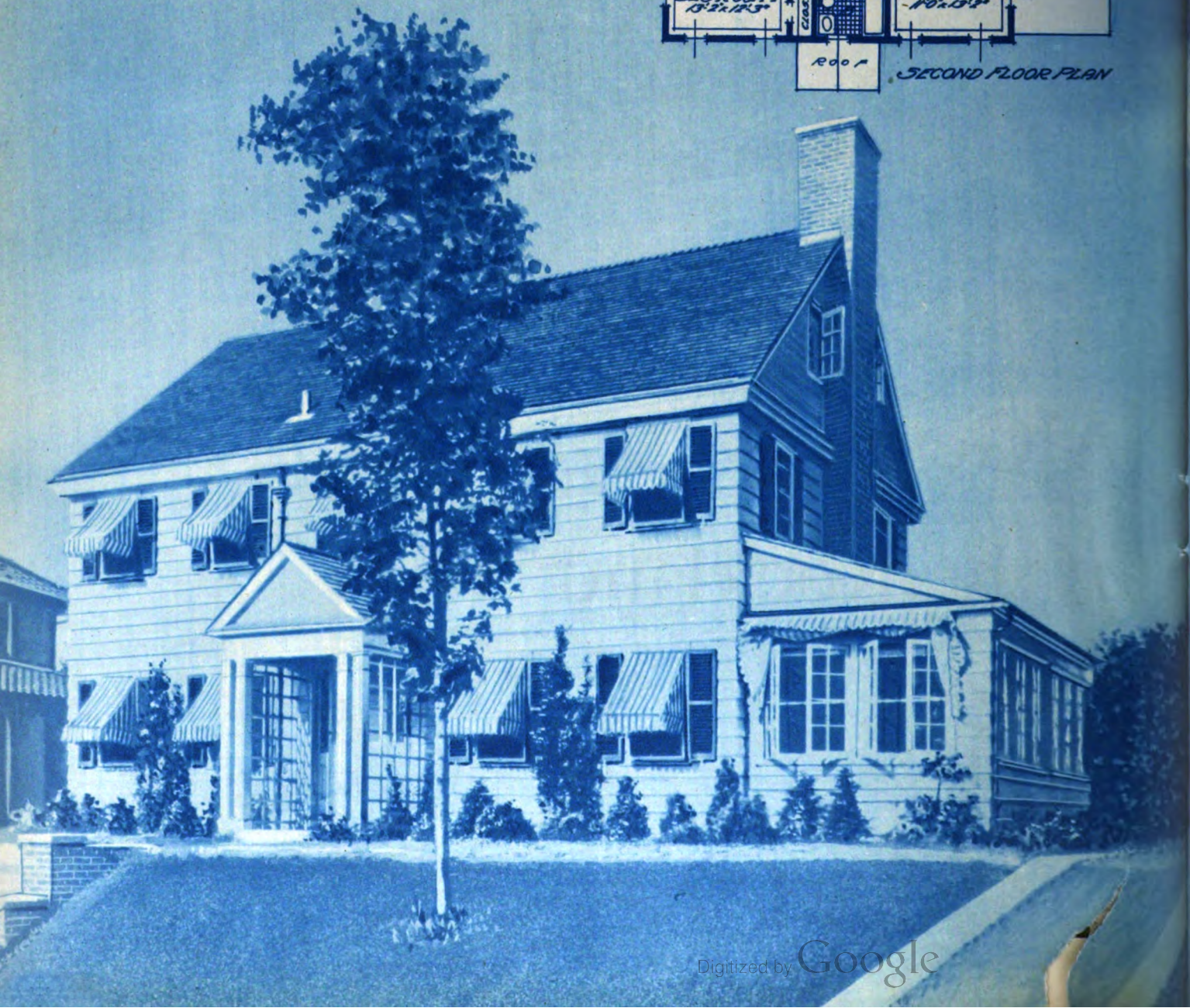


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Its Ancestry *from* New England

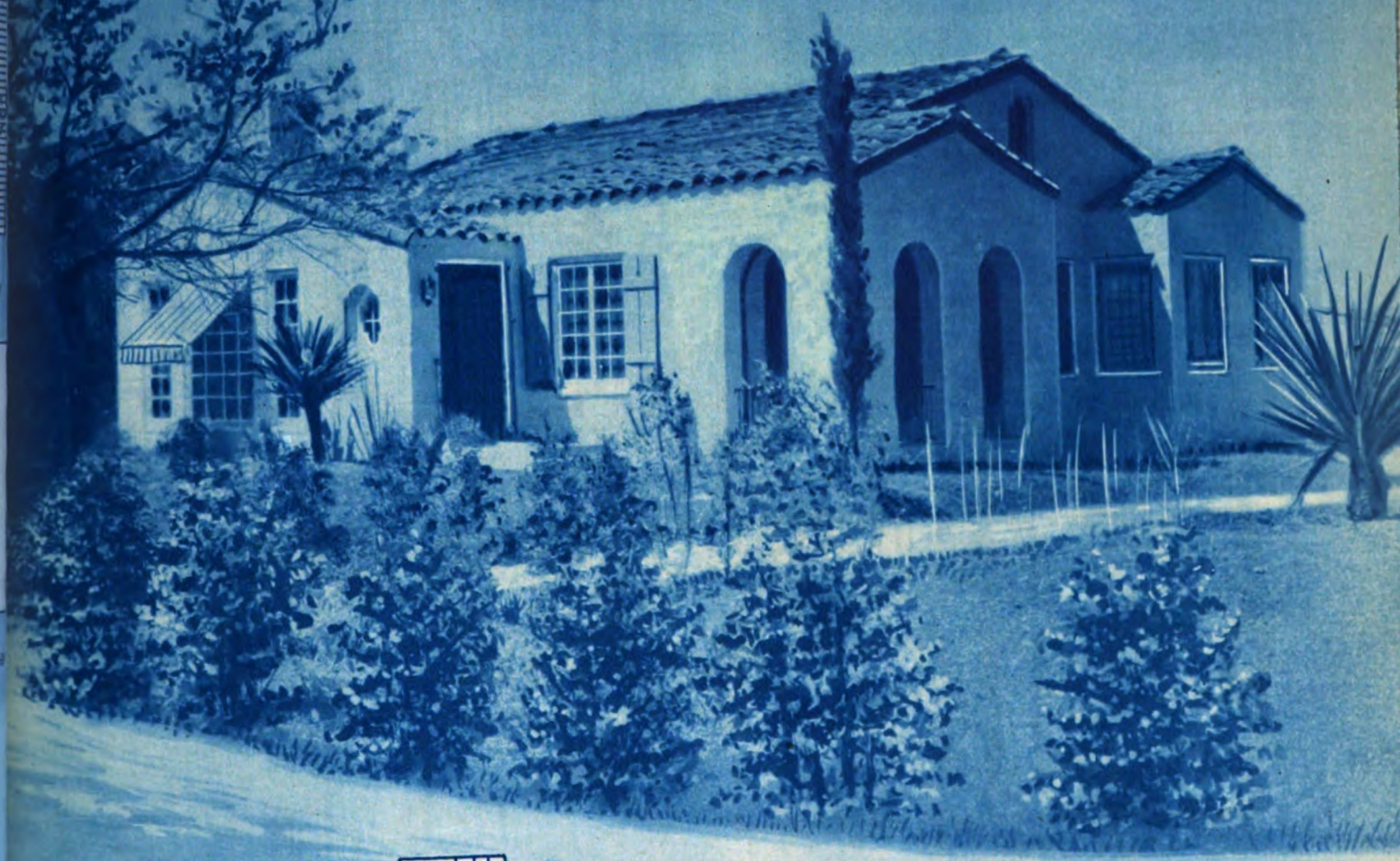
SIMPLE lines and good proportions contribute to the making of this home. Wide bevelled siding in glistening white is set off by the green stained roof and green shutters. Awnings in white and green stripes also carry out the inviting treatment. The sun parlor is a modern touch demanded by present day standards. On the second floor are four bedrooms with two baths. The attic is large enough for two extra rooms and bathroom in a rear dormer. R. C. Hunter & Brother, New York, Architects.

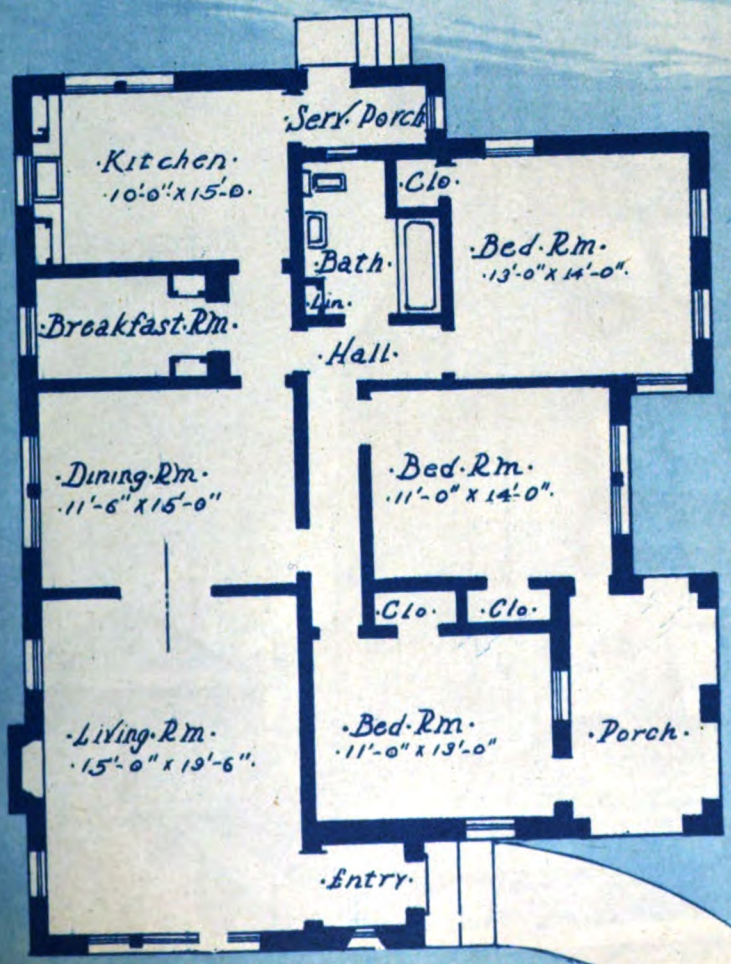




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As If Built by the Padres

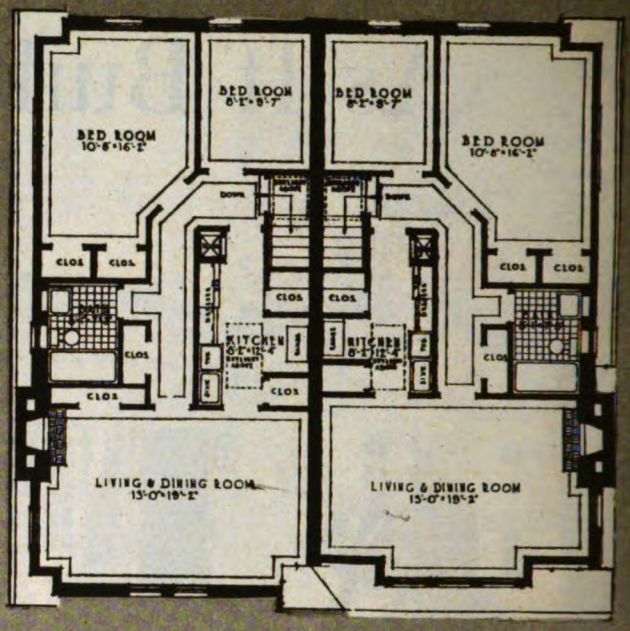


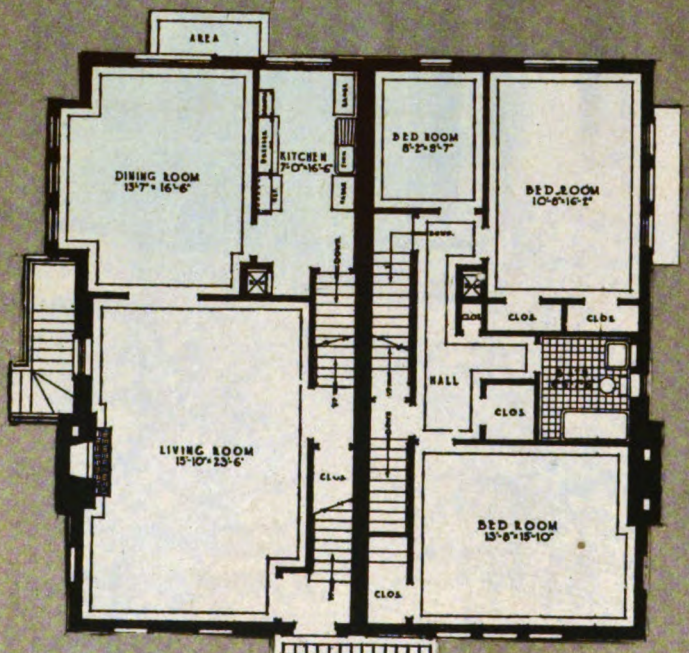


THE missions of old California have charmed many a beholder. They, of course, were the work of the old Padres who established their missions along what is now our west coast. Properly so, many modern buildings in California copy their style of architecture and many other sections of our country are also following their spirit, as the rugged simplicity, bold lines and clever handling of mass effects give a beauty all its own. The bungalow home shown here was designed and built by Cowell & Company in San Antonio, Texas, the interior arrangements, of course, reflect modern day living conditions. Photo by Mathew Paxton.

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THE two floor plans of the twin houses shown here reveal their novel interior arrangement. The first two floors comprise one house, and above this is a separate four room apartment complete in itself with its own stairway. One of the plans show both first and second floors—the corresponding other floor above or below has the same room arrangement only reversed. The houses are constructed of brick of a decided English design that is quite pleasing. While both sides are identically the same, the exterior differs in measure, so that it has the appearance of one large house. These duplex twin houses are constructed by the Queensboro Corporation at Jackson Heights, New York and were designed by C. F. and D. E. McAvoy and L. C. L. Smith, Architects.





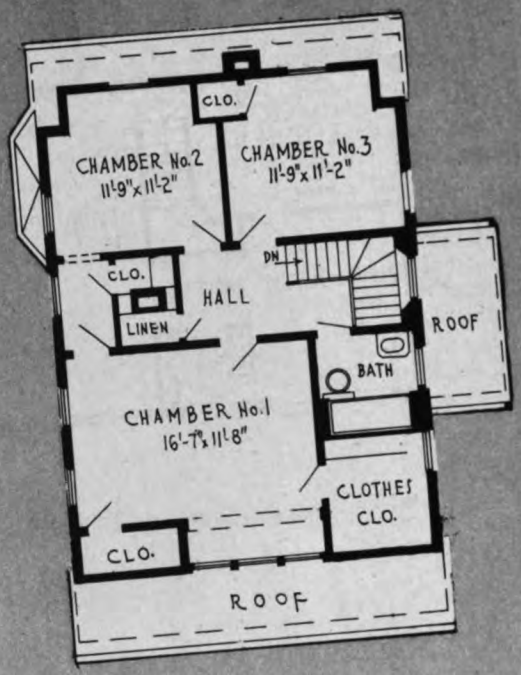
A Duplex Twin *of* Brick



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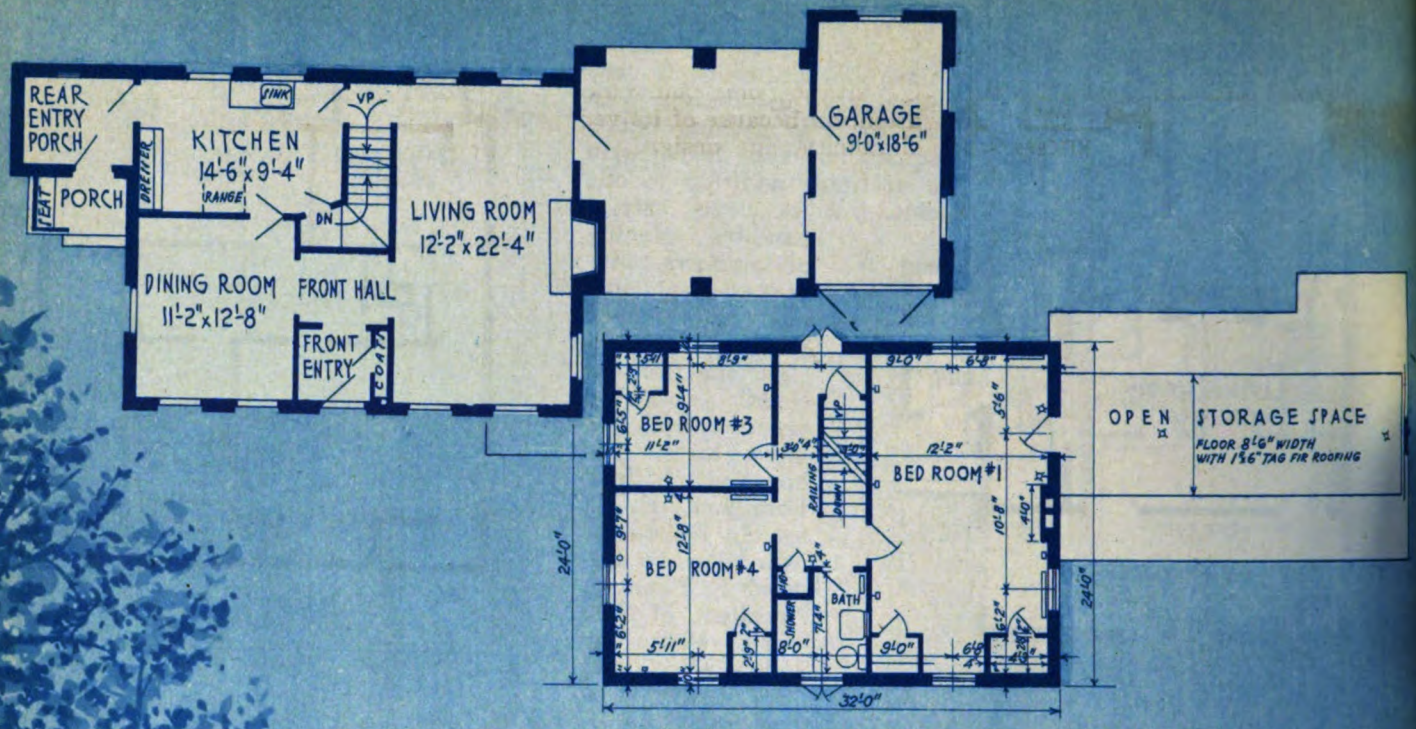
SET on a terrace, this stucco home commands attention because of its very simplicity in design. In reality it is nothing but a square box type house with a vestibule addition to one side, but its clever careful handling, placing of windows, window boxes, dormer and clipped gables make a design that is decidedly pleasing on account of this unusualness. This house was built at Fort Lee, N. J., for Mr. E. Grasser from plans by Edward F. Fanning, Architect, of New York. Photo by J. Wallace Gilles.



Dignified Simplicity Rules Here



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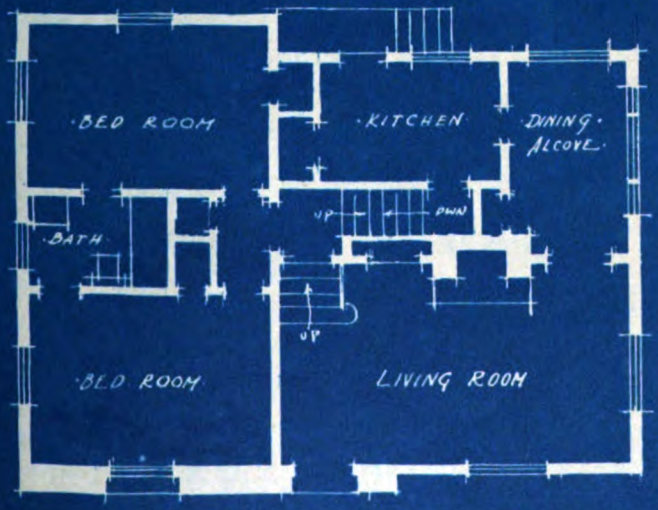
In Brick

A Cape Cod Colonial

SOME of the prosperous descendants of the Puritan fathers built for themselves very substantial homes and their particular style of design is known to us as the Cape Cod Colonial. Here is a modification of this style home built mainly of brick with clapboard gables. It is located at Teaneck, New Jersey and was designed and built by Fred Warner. Its most interesting feature is the porch open at both sides that also serves as a covered approach to the garage. Photo by Browning Studios, New York.

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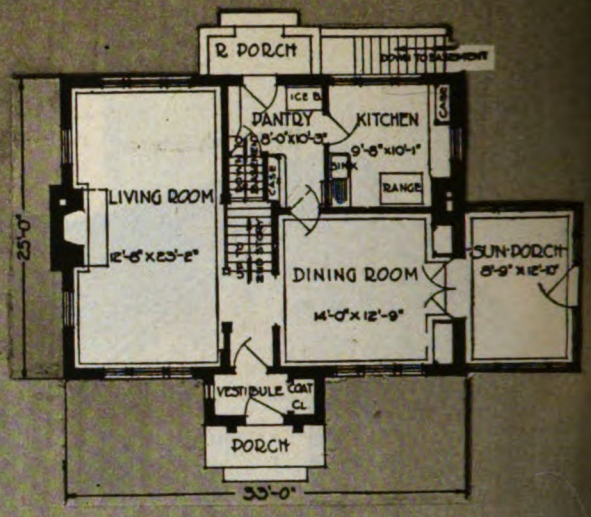
Bungalow Beauty

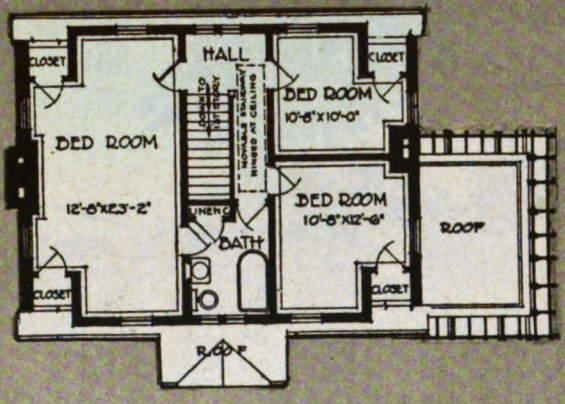


NESTLING, closely to the ground is this little home gem in grey and white. No more effective contrast could be had for such a small home, as it looks so well midst the grass and its background of trees. The front gable wall is of rough hewn stone laid up in wide mortar joints with a touch of red added by the brickwork. Casement windows add the sunshine touch to the interior. Irregularly lined shingles in white cover all outside walls except the stone section. This clever little bungalow designed and built by C. C. Merritt at Larchmont, New York. Photo by Schuyler Carteret Lee.

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A Homey Home *of* Brick





COMFORT and cheer seem to radiate from every angle of this homey home. Six large rooms with bath and attractive sun room provide ample room for the average family of refinement. A disappearing stairway gives access to attic. This house is one of the attractive home designs featured by the Common Brick Manufacturers Association. It was built at Forest Hills, Long Island, New York from plans prepared by Grosvener Atterbury, architect, New York. Photo by Wurts Brothers.



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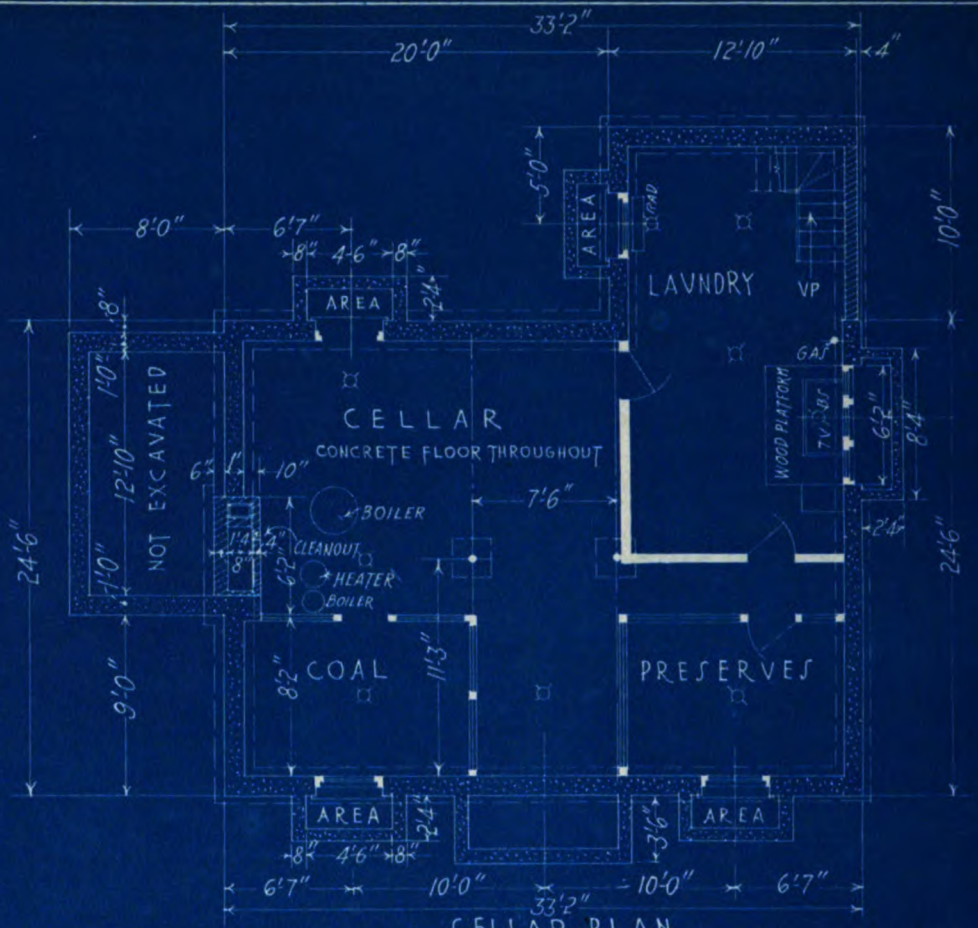




This Electrical Home Won by a Girl

MISS JULIA GROO, whose picture is shown here, was the winner of the $15,000 Model Electrical Home shown above. This was built for her at Portland, Oregon as the prize for an essay about electrical conveniences in the home, a contest furthered by the electrical interests of the country in which over one million school students competed. The complete working plans of this Model Electrical Home are shown on the following pages in blue print form.

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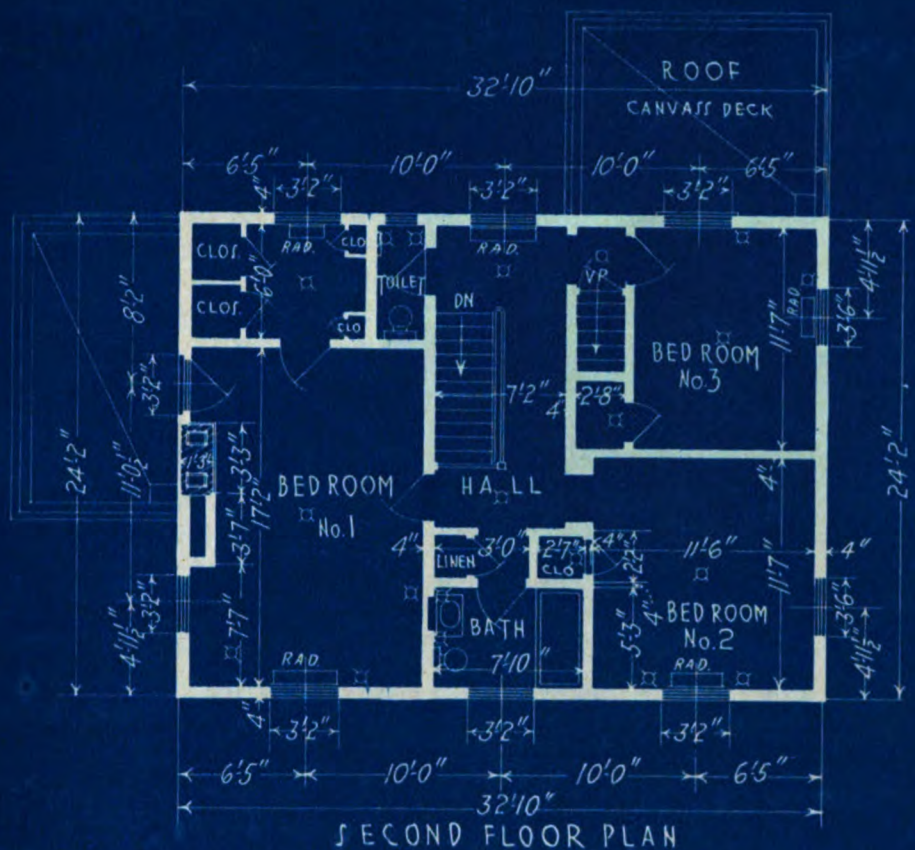
BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

November 1926

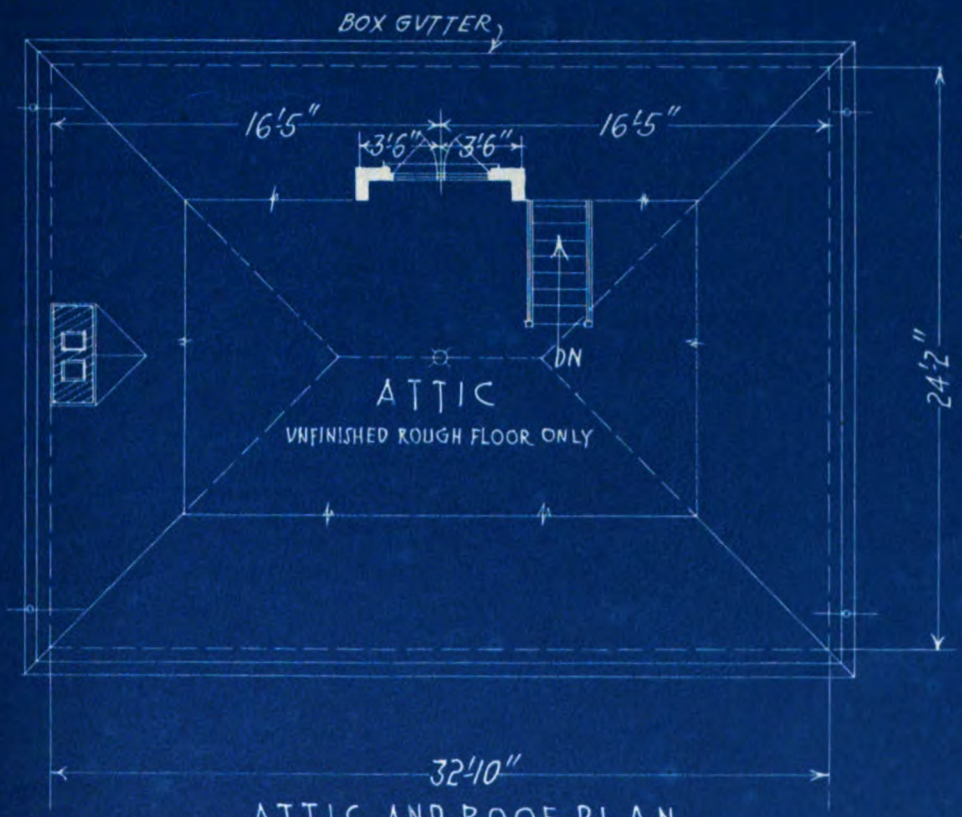
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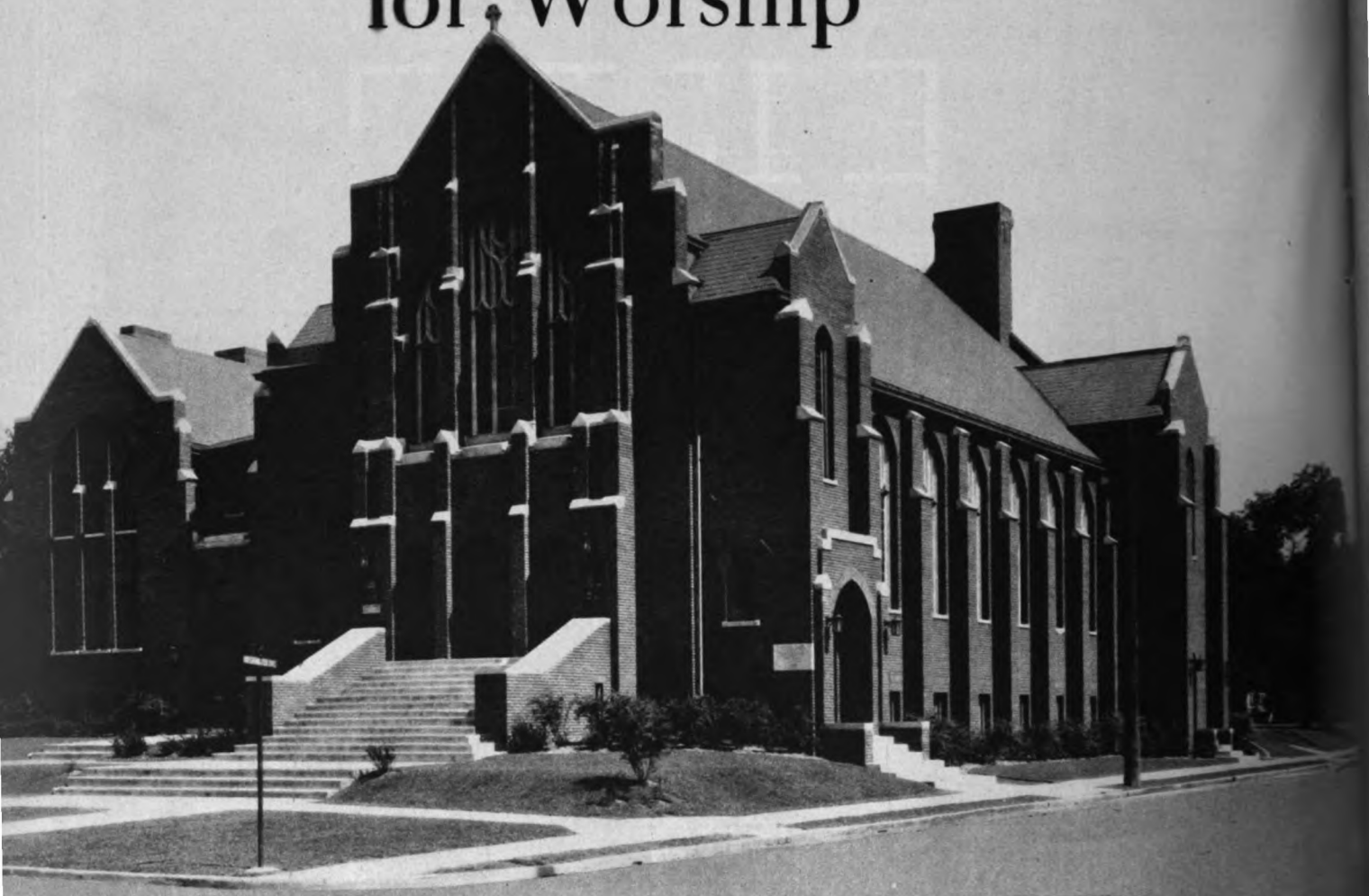
SECOND FLOOR PLAN

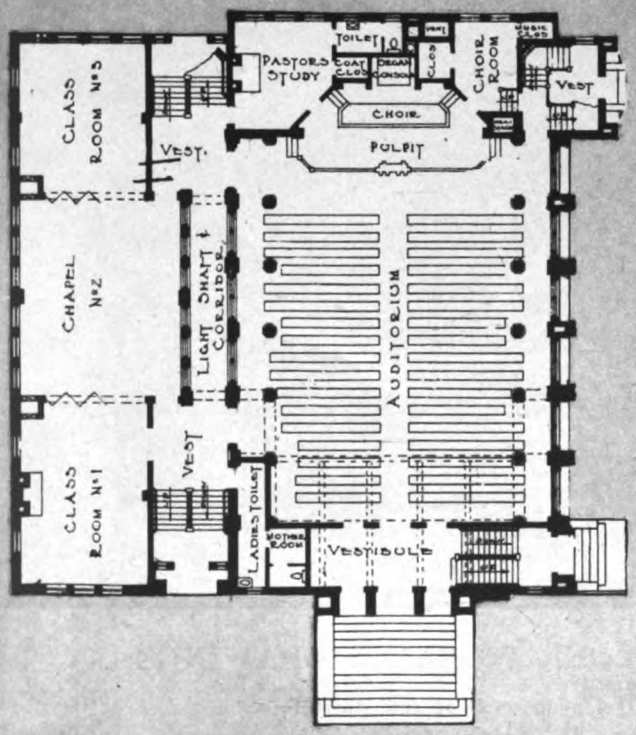


ATTIC AND ROOF PLAN

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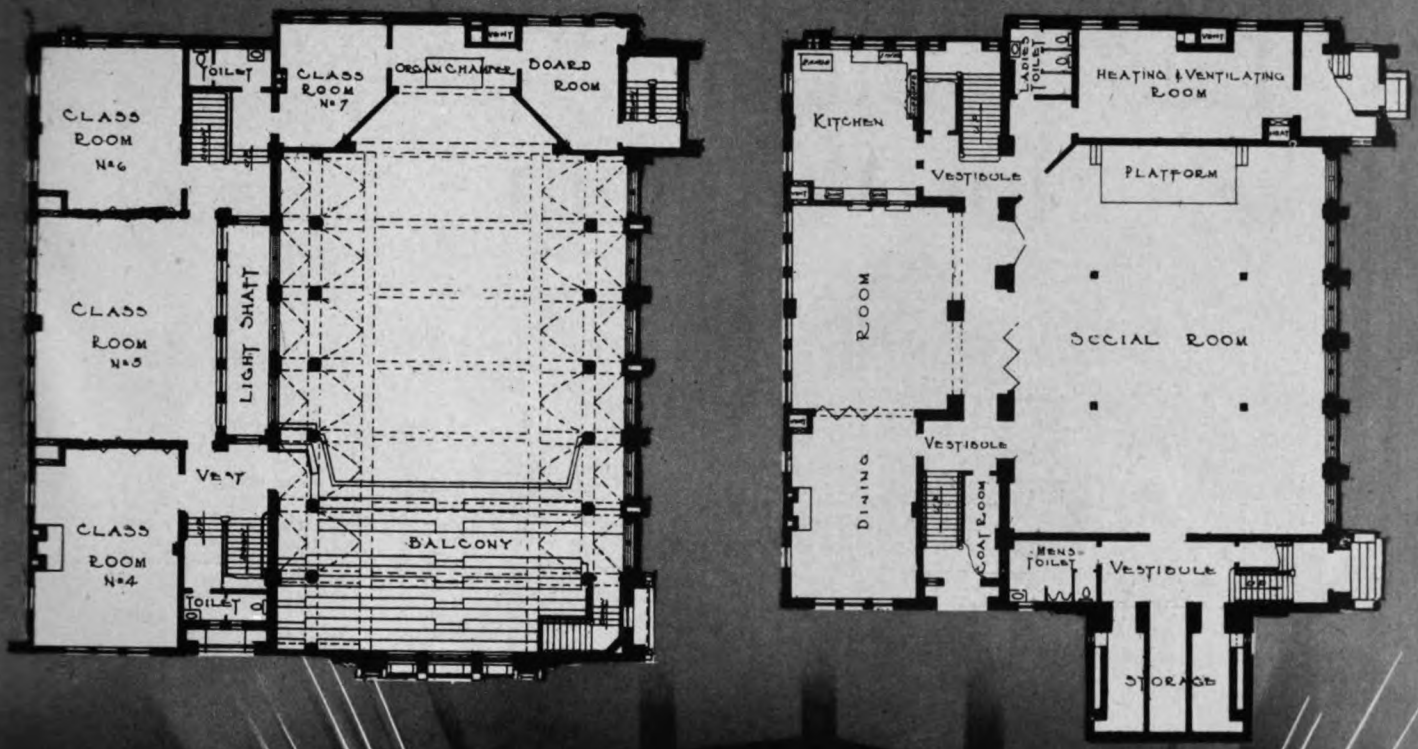
Let Us Build a Temple for Worship



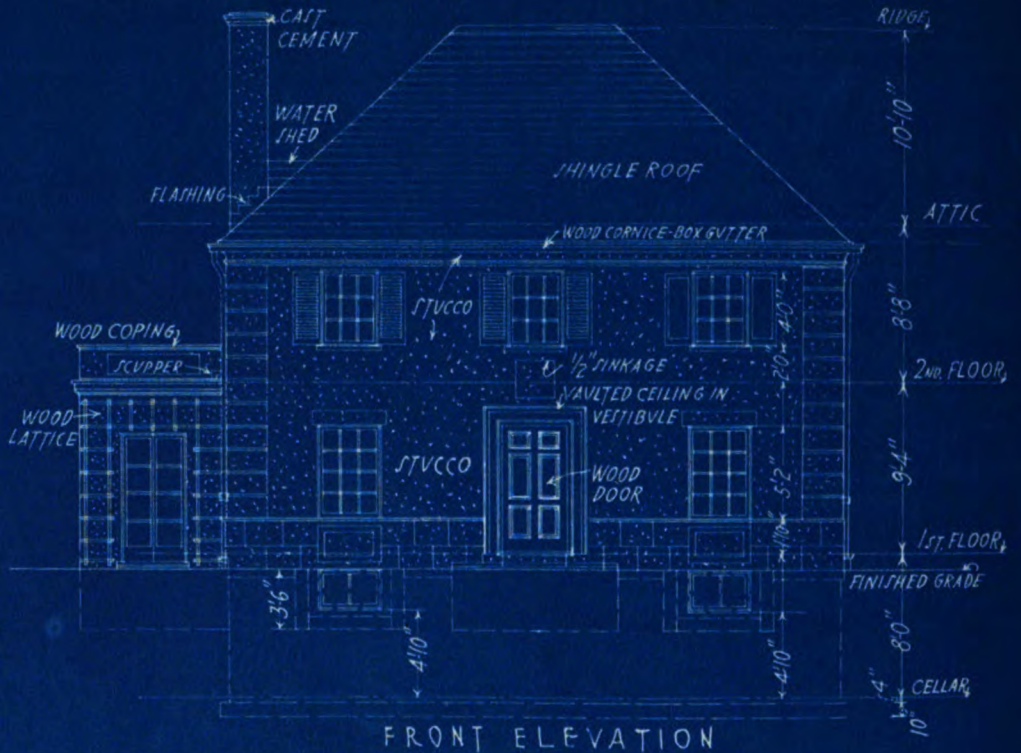


THE church in many communities now serves not only the spiritual but the social side as well of its attendants. An interesting example of such a church structure is shown on these two pages. It is that of the Presbyterian Church, Norwood, Ohio. The three floor plans show how the different rooms have been arranged. The dimensions over all are 86 by 93 feet. The building is built of buff tapestry brick with stone trimming, and the style copies the English Gothic. The basement, or social room floor, has a large assembly room 48 by 60 feet and several other smaller rooms; by opening accordion doors, the entire floor may be used as one room, with a seating capacity for over 400 at tables. It is well adapted for social affairs run by the different church societies. J. C. Fulton & Son were the architects.

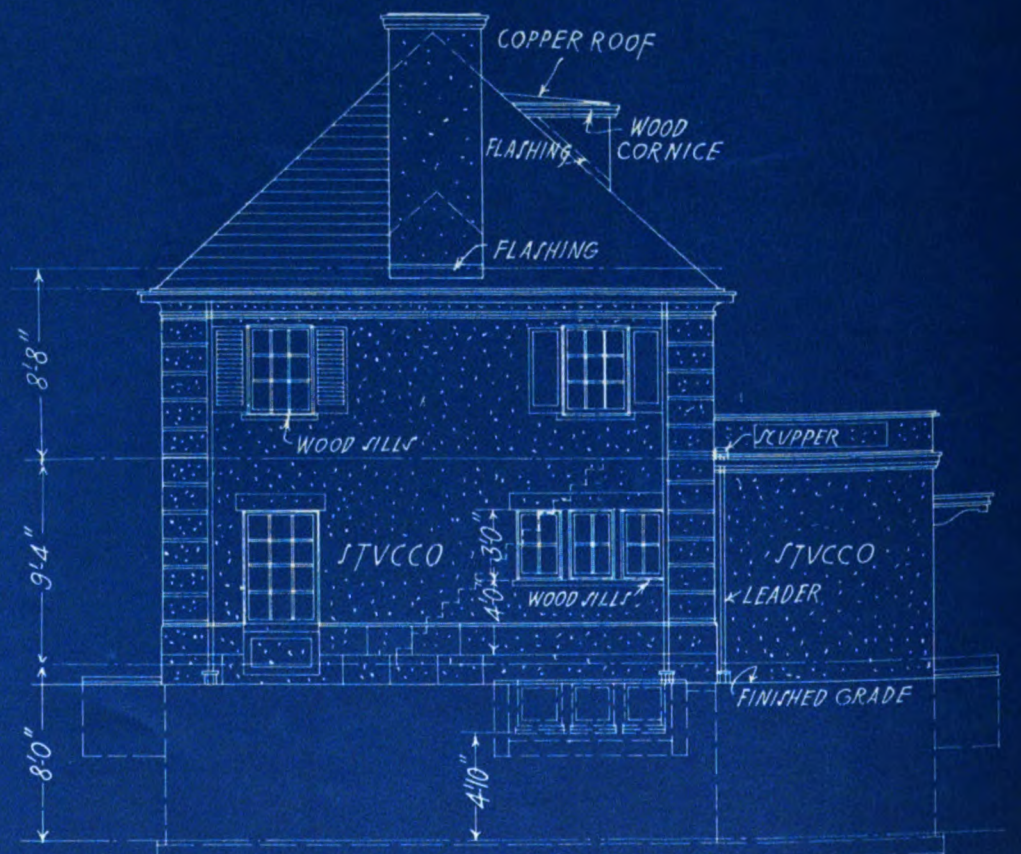
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FRONT ELEVATION



SIDE ELEVATION

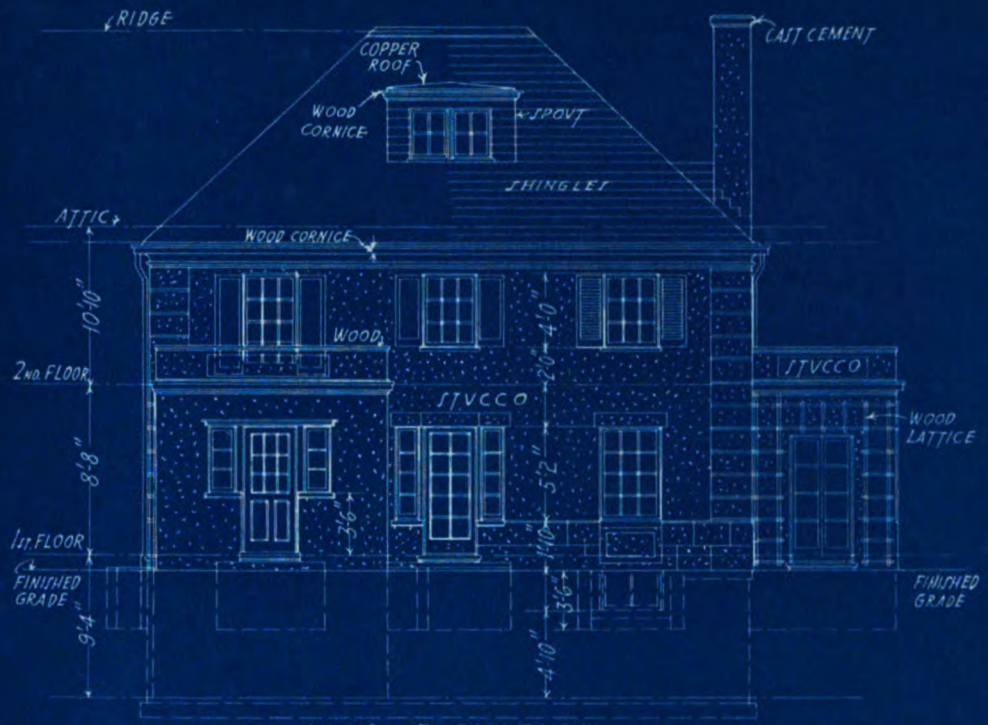
BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

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REAR ELEVATION



SIDE ELEVATION

BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

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Palatial Apartment House

New Cooperative Project at 1158 Fifth Ave., New York

A PROJECT representing an important addition to the already numerous cooperative enterprise in New York has been built on a desirable 5th Avenue location, facing Central Park. The building, 15 stories in height, with pent house and basement, is fireproof, of steel and concrete construction. The financiers and owners, Houston Properties Corporation of New York, have provided a variety in size and arrangement of apartments which includes one maisonette and four apartments, duplexed into roof space, affording ample choice for prospective apartment owners. Each floor will have four apartments, one of 7, two of 8, and one of 9 rooms, served by two high speed elevators fully equipped with every modern device for safety and convenience. The costs range from $59,000 with an annual carrying charge of about $6,500 for an eleven room duplex to $9,000, with an annual carrying charge of $990 for a seven room apartment.

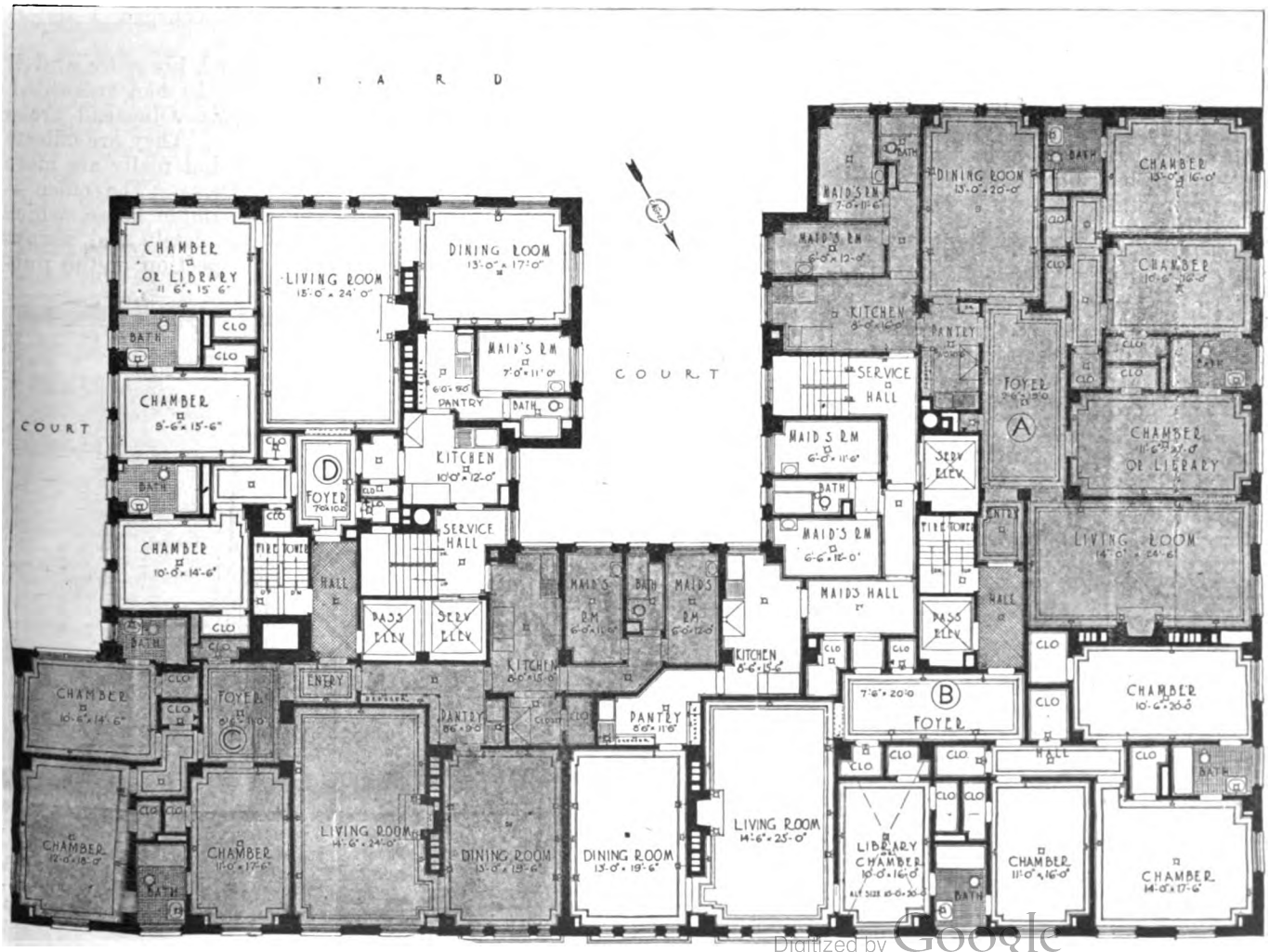
The exterior design is French Renaissance, the lower portion built of Indiana Limestone, with carved ornamentation, the main body of the building of grey face brick—tapestry texture—while the upper portion is trimmed with architectural terra cotta.

Architects
C. Howard Crane
E. K. Franzheim
New York
Dwight P. Robinson
& Co., *Builders*

The interior of the building carries out in every respect the wishes and tastes of the cooperative owners. Walls and ceilings throughout are finished in putty coat plaster suitable for painted or other decorations. Floors and entry foyers, living and dining rooms, are white oak, while in the remaining rooms of the main quarters, floors are white oak finished with a dark stain and waxed. All service space and closets have cement floors.

In each of these apartments master bath rooms are tiled to about 4 ft. and equipped with built-in tubs, mirror doors and built-in fixtures.

On the 16th floor four duplex apartments have been allocated, a 7 room, 8 room, 10 room and 11 room suite respectively. These include garden space on roof.


COURT
COURT
DINING ROOM
LIVING ROOM
LIVING ROOM
DINING ROOM
DINING ROOM
LIVING ROOM
KITCHEN
SERVICE HALL
FOYER
MAIDS HALL
CHAMBER
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Making Every JOB *an* AD

By Edwin Pendexter

L. T. Olmstead of the Brown-Olmstead Building Co. of San Diego, California, Tells How His Business Has Grown



Mr. Olmstead, Merchandising Builder

A MAN called on Mr. Olmstead because a friend sent him. "I have a floor plan here that I like," the man told the builder. "How much will it cost me?" The pencil sketch of the floor plan changed hands. "I'll call again in a few days," said the prospective buyer, and left.

When the man returned, Mr. Olmstead presented his caller with a *colored sketch* of what his house would look like. There were also tentative specifications and detail sketches, and a price.



"Will it look like this?" inquired the prospect.

"It'll look better than that," came the prompt reply.

"Can you help me finance it?"

"In any way you want," Mr. Olmstead informed him.

"All right, then; what're we waiting for? Fix up the papers and go ahead with the job!"

Shortly after I heard of this unusual business transaction I called on the working part of the Brown-Olmstead Building Company. He, L. T. Olmstead, greeted me with a smile and a hand shake that had something behind it. Medium size, about thirty-five years old, a regular he-man, and like practically everyone else in Southern California, he came from some place else. Ohio is his "home state," and there he worked at the trades, building the foundation for his present executive position. If a brace is put in wrong, or a mixture of concrete not just right, he knows it and has it corrected.

"How did you make the break from working with your hands to working with your head?" I asked Mr. Olmstead. He smiled.

"I enlisted in the Army in April '17, and was discharged in November '18. During my soldiering I learned that if a fellow wants anything he has to go out and get it. When I was discharged I determined to 'get it.'"

I looked around his office and it was evident that he had succeeded. Affiliated with Mr. Olmstead are a couple of bankers. They are officers of the company, but really are more like silent partners. The office is located in the sample house, which is furnished completely and always open for the inspection of the pub-





THIS is a sample house that makes many good customers for the Brown-Olmstead Building Company. Mr. Olmstead knows that most prospects receive no clear impression from a blue print but they do appreciate actual details of construction

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THIS trim model is typical of the work of this enterprising Californian. Before the prospective home owner gives him the contract he is provided with a colored perspective sketch showing the house as it will look when it is actually completed

lic. A register is placed on the dining room table, with a small notice requesting visitors to please sign. That book is interesting. It has names from all states in the Union, and from foreign countries.

An extensive newspaper advertising campaign was put on at the time of the opening of the sample house. A record was made of the number of people who visited the house on the opening Sunday. The figure is *five thousand three hundred!*

The idea of a sample-house office is a good one. From a sales standpoint the sample house has proven to be the best advertising medium found. It makes a comfortable headquarters, and a lounge for customers while the many details of a new house are being discussed. Different details that have been worked into the sample house are there to be shown to customers. Most people can't get head nor tail from a drawing, but to see the actual piece of molding or casement window-frame or tile in the hearth, they readily understand, and like it better. And, too, a furnished house always appeals more than the same interior bare of furniture and hangings.

As to general advertising, Mr. Olmstead does very little. Every Sunday he has a picture of one of his completed houses in the paper, and a little write-up about it. "How do you get your business?" I asked him. "Competitive bidding?"

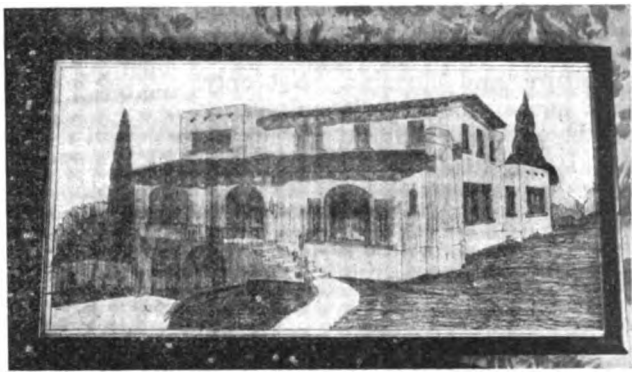
"*No Sir!*" he assured me. "Most of our business comes to us recommended from our customers. You won't get anything out unless you put something in. That's what I figure, so I build only in a first class manner, and the returns prove my contention. No; we never bid on outside plans.

"We have," Mr. Olmstead went on, "an architect in our organization; a member of the A. I. A. We make up a set of plans complete to every detail, from foundation to peak. With these plans go a set of specifications, also complete. And then, to make the blue prints and specifications mean something to the average customer, we make a sketch, in perspective, of what his house will look like."

"Supposing," I interrupted Mr. Olmstead. "Supposing the prospective customer thinks your figure too high. You have put out all that work for nothing."

"No. This is a *business* office. We will go the limit to satisfy and please a prospective customer, but before we do that, we satisfy ourselves that he means business. We charge three percent for plans and specifications regardless of who builds the house. If the customer thinks we are too high, he is at liberty to take our plans and specifications anywhere else and get the work done.

"We first quote our contract price for only first-class workmanship and material. If he wants cheaper work done he can get it easily enough from someone else. In that case he pays us three percent for our architectural work. If we build the house, as is usually the case, we give the customer credit for his ad-



THIS is the type of sketch that the prospect receives. It is in color and gives him a definite idea of just what his money will buy. Mr. Olmstead attributes much of his success to the confidence that he is able to establish in the layman's mind



INTERIORS of Brown-Olmstead homes are simple and in good taste. This shows the correct use of wallpaper as a decorative medium. It offers a good background for substantial, well designed furniture

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vanced three percent on our contract price quoted to him."

"Well, that's a good scheme," I admitted. "What else have you up your sleeve to offer the prospective buyer?"

"Complete service," was Mr. Olmstead's prompt reply. "We take care of every individual's needs from the time he comes to us until he moves into his new home—a home as complete as it is possible to make it." He smiled. "Of course, we don't go so far as to cook the first meal in the new home, but almost!

TO start with, we are licensed real estate brokers. If the customer doesn't own a lot, or wants us to handle one for him, or wants to sell his home after it is completed, we are in a position to serve him. We are agents of a reliable insurance company. If our customer desires that we finance his home we can do that in any manner he desires.

"We can arrange to decorate the interior of a new home, even to selecting harmonious rugs, drapes, furniture, and curtains. Not only the house receives its finishing touches by our organization, but we will landscape the grounds if that is desired. Right now we are digging a well for one of our customers!"

There is no doubt that Mr. Olmstead knew what he meant when he said, "Complete service." Although the office force wear white collars, they certainly take off their coats and give service, and that it what gets the business. That, and honest building.

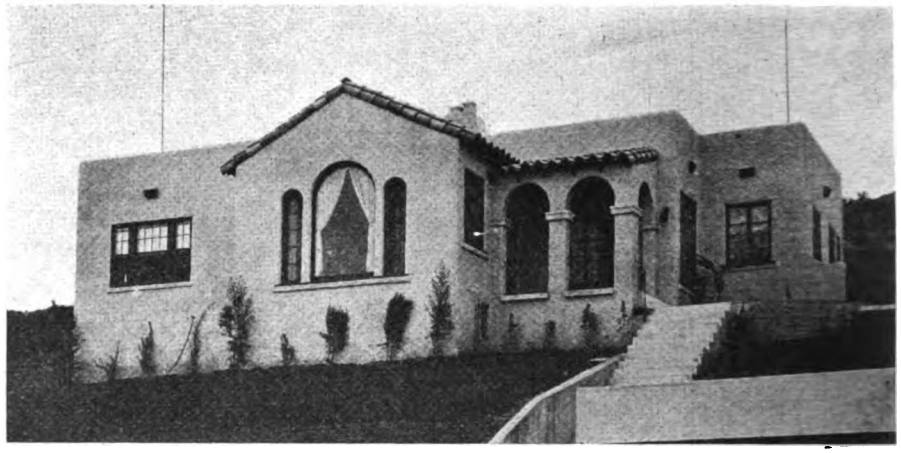
Mr. Olmstead is District Commander of Post 22 of the American Legion. Like a good many other enlisted men during the war, he is a leader in civil life. At home he has a wife and two young builders growing up.

Although Mr. Olmstead does only first-class work, and is proud of it, he does everything possible to keep the cost down. He runs his own woodworking shop wherein is made all special material. On his jobs he operates power saws to cut all his material.

VERY little of the contract is sublet on any job. Wiring and plumbing are usually the only branches of the work that the Olmstead organization doesn't do.

"Well, to sum the thing up briefly," I asked this successful builder of San Diego, "what is your success recipe?"

"Know the business from stem to stern; use honest material and right principles; employ salesmen to acquaint prospective customers with these factors of our service and the advisability of employing them. If you do that, every job will be an ad, and you will succeed."



This terrace home bears out the slogan "Every Job an Ad"

JAMES RIVER COLONIAL

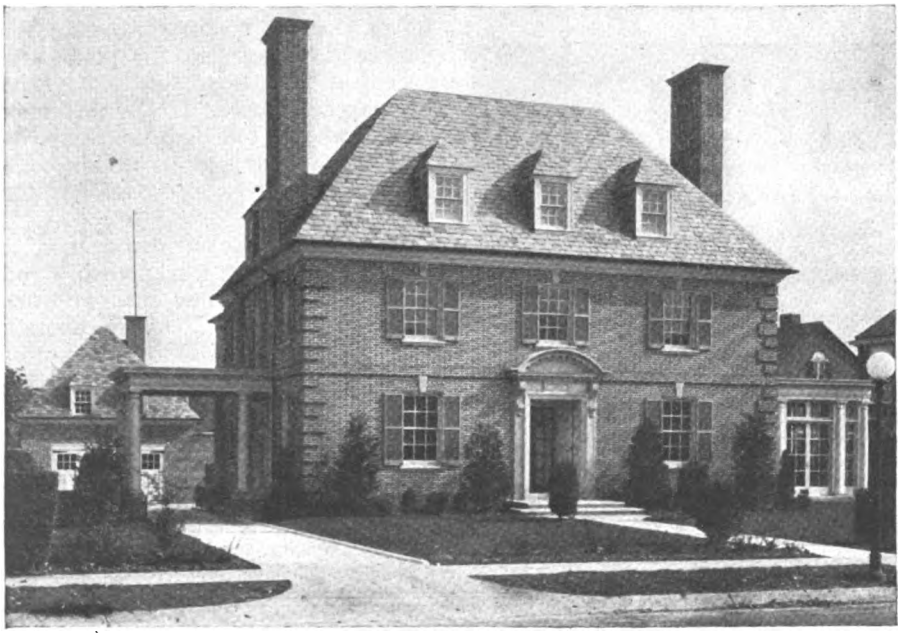
(*Continued from page* 95)

rooms would add a characteristic touch. Any modern rugs of good quality could be laid.

In the old homes on the Virginia estates, the ceilings were of great height. This was emphasized by the tall windows, and these were kept in scale by the paneling of the walls. This paneling was of two types, wood and plaster. Often pine and other softwoods were used for the panels, which were large, with beveled edges, surrounded by bolection mouldings or others of simple profile. Panel-strips of plaster moulding came into fashion later on; indeed, they are more characteristic of the "Southern Plantation style."

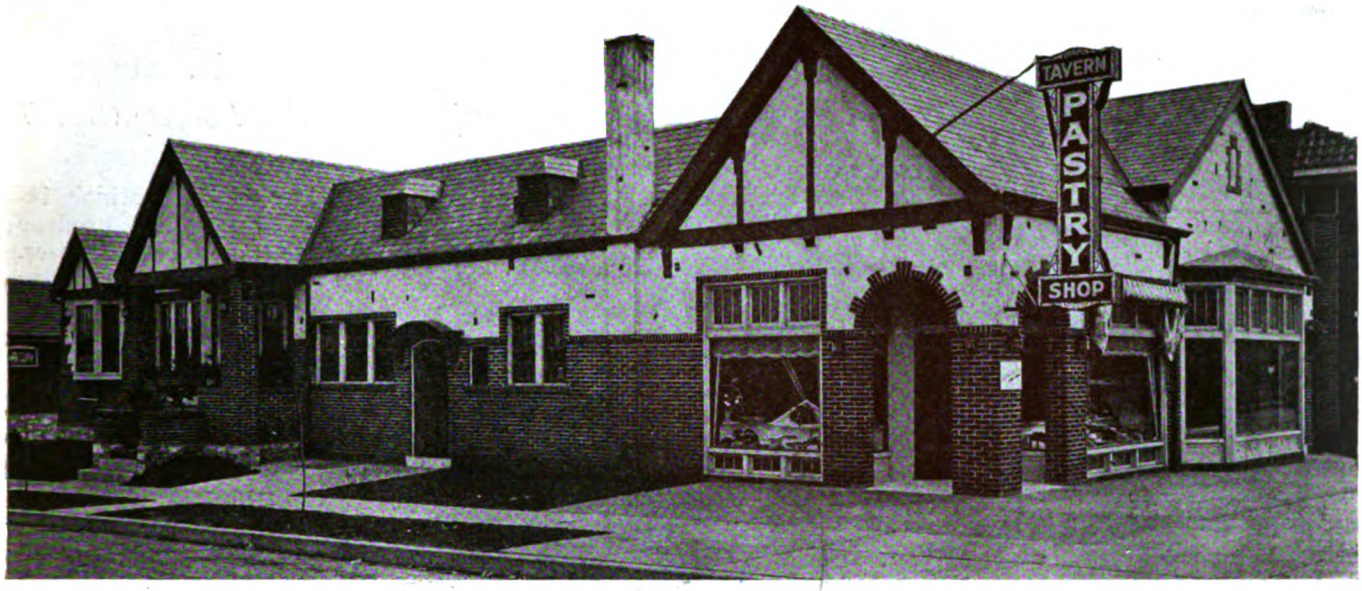
Color was an important part of the wall-treatment. The panels were painted in soft tints of grey, rose, yellow, lavender, green or blue, and these delicate colors were repeated in the long window-draperies and door-hangings.

IN each room of this character there was a fireplace generally in one of the partitions or across a corner. The hearth and chimney-place often was the most elaborate thing in the room. By this time, it was customary to import marble mantels from Europe, and the modern home in this style must reproduce in wood and paint the effect of these board high fireplaces, with chimney-breasts enriched with plaster ornament or mirrors.

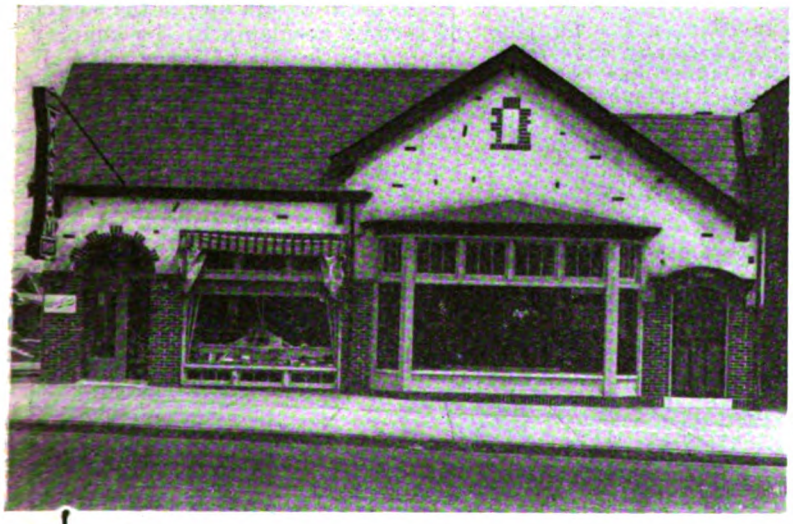


THE home of Thomas Badgett in Baltimore, Md., is an excellent example of a James River type adapted to modern use. The roof line in this case is softened by three small dormer windows. Architect, E. J. Palmer

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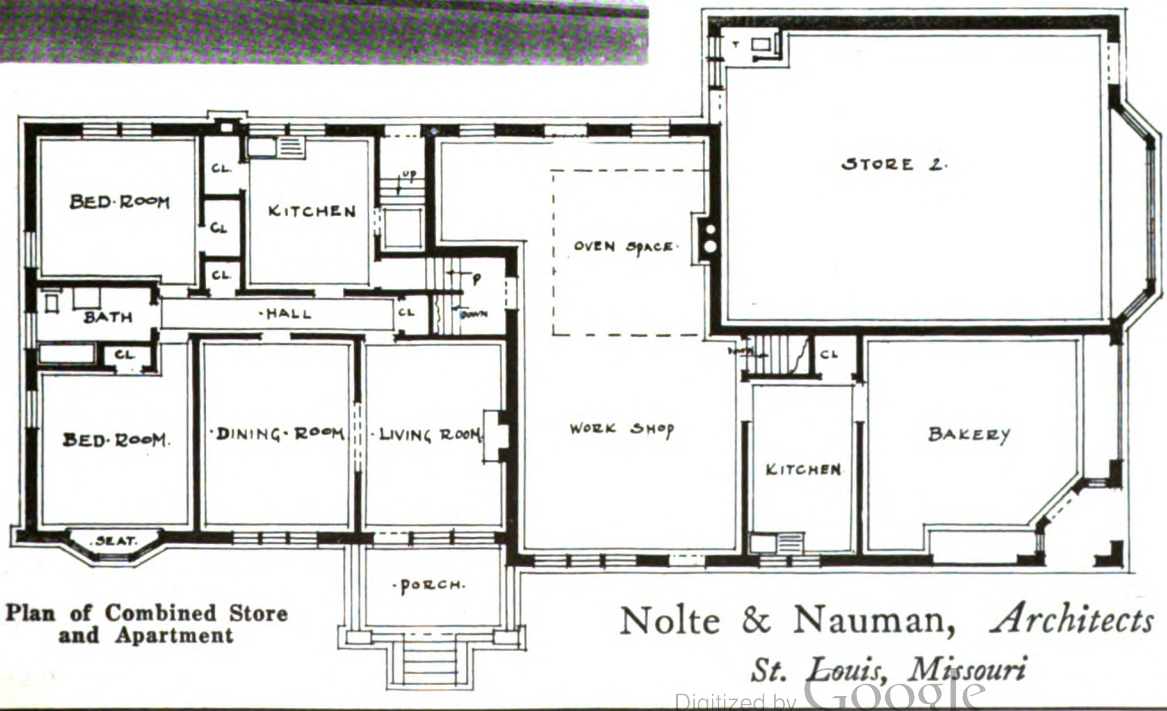
Apartment-Store Unit



Erected for St. Louis Homes Corp.

L. John Moresi, *Builder*

THE trend to create retail store buildings of definite beauty is shown here to good advantage. The Tavern Pastry Shop, cited last year by the Master Bakers, occupies the corner while the proprietor enjoys an unusually well laid out apartment in the rear. Simplified English design has been worked out with brick and stucco, with a roof of variegated green and purple slate. Store floors are maple and apartment floors oak.



Plan of Combined Store and Apartment

Nolte & Nauman, *Architects*
St. Louis, Missouri

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PLAY SAFE

By Charles B. Scott
President of National Safety Council

BARRING the personal equation in building construction, the job where equipment has been kept in first-class condition is almost always the one with the smallest accident record. The contractor who sees to it that his workmen are not indirectly placed under dangerous conditions is in a far better position to advise them to be careful and to insist of their employing the rules he may lay down.

Every phase of the job should have its own set of warnings and suggestions for the workmen. In general, however, every builder should use judgment in assigning men to do certain work and should be sure they are capable. The man who does not know the work assigned to him is undergoing a far greater risk than is the competent employe. The builder should call the attention of his men to dangerous conditions so that they can be on the lookout. If possible these conditions should be recognized, but there are always a certain number of natural risks against which the workmen should be on guard.



This man is investing a few minutes that may save him many days later on. A slipping ladder has been responsible for many serious accidents

The builder should paste conspicuous signs warning the public to keep out. He should instruct his men to report all accidents no matter how trivial. Minor injuries neglected produce most of the infectious cases.

In excavating there seems to be a tendency to neglect precautions ordinarily made on other steps of the job. Adjoining buildings must be braced to prevent walls settling. The builder must see to it that sole-pieces of shores are in solid ground. Rain and other water must be kept out of the pit for the safety of the foundation as well as in consideration of efficient operation.

Whether on the large job or the small one, the material hoist should be considered as more than a temporary piece of equipment. It undergoes great strain and is the source of serious accidents in the country during the course of every year. It is essential that only experienced men be employed in the erection and taking down of the tower. Important members of the structure should be inspected frequently and bolted rather than spiked. A substantial ladder securely fastened should extend the entire height and

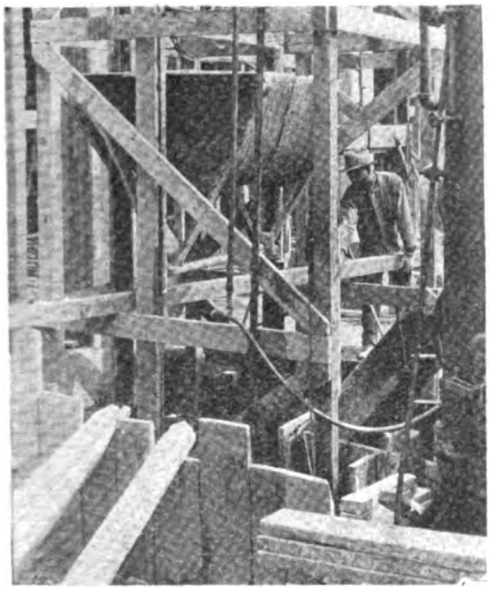


SOMEONE left this loose plank for the man to turn over and fall below (left). Were this plank part of the platform, it should be firmly nailed or lashed and not left in this careless manner. Working in a building under construction, men are constantly in danger and needless accidents are criminal

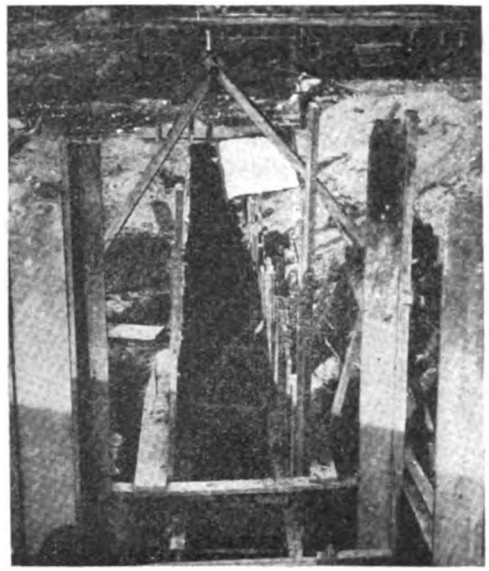
IT seems hardly essential to advise that stairs be kept clear of window weights. However, this picture shows a case where the workman has just saved himself from a dangerous fall. Probably some workman simply parked these weights, intending to come back for them. In the meantime almost any injury might happen



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THIS man has slipped a 2 x 4 in. across the pit before going below to work. This should always be done and it is up to the superintendent to see that his workmen carry out the orders. A hoist bucket crashing to the bottom has caused more than one accident already



TO the right is shown form work properly done. There is no danger of a cave-in here with the attendant injury and slowing up of the job. All the bracing does not take over an hour at the most. It will be noticed that braces have not been used indiscriminately but with a knowledge of their structural value

at each working level there should be a substantial platform with a railing and toe-board.

Every 40 ft., guy the tower and make sure that the guys are well anchored. In case of platform elevators post danger signs forbidding ANYONE to ride and enforce this rule.

One illustration shows two dangerous conditions in line with the operation of platform elevators. One man is standing on the platform with his barrow and should it start suddenly it is more than likely that he would be injured. The other workman is following the safer practice and keeps his feet off the platform. Should it start suddenly he will be thrown back but not injured.

Where bucket hoists are used the pit should be well drained and arranged so that any spill will fall far below the blocking on which the bucket rests while being filled. Never allow men in the pit to work without first resting the bucket on

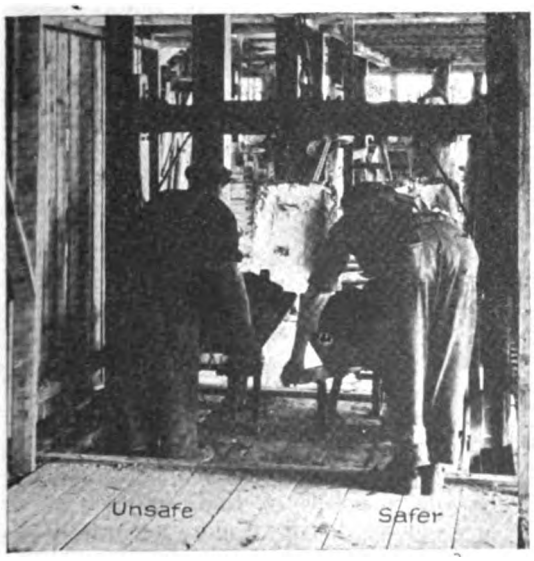


THIS man has saved himself but faulty ladders have caught many of his brother workmen before this. Such equipment should be removed

timbers placed across the opening.

In concrete work the chief source of minor accidents is the danger of projecting nails in forms. Insist that workmen wear heavy soled shoes, and report all nail accidents, even the merest scratch. Where old lumber is used it should be cleaned and all nails removed before being sent to the job. Do not bend over and hammer in nails.

In conclusion, the general aspects of fire prevention and cleaning up are worth consideration. The risk of fire during building construction is rated "high" by insurance companies. The lack of fire fighting facilities and the presence of combustible materials are responsible for this consideration. Fire extinguishers should be placed around the building and every workman should know the location of the nearest fire alarm box. Allow no smoking on the job. Remove rubbish and waste material as often as it accumulates. It costs money to work around or over rubbish.



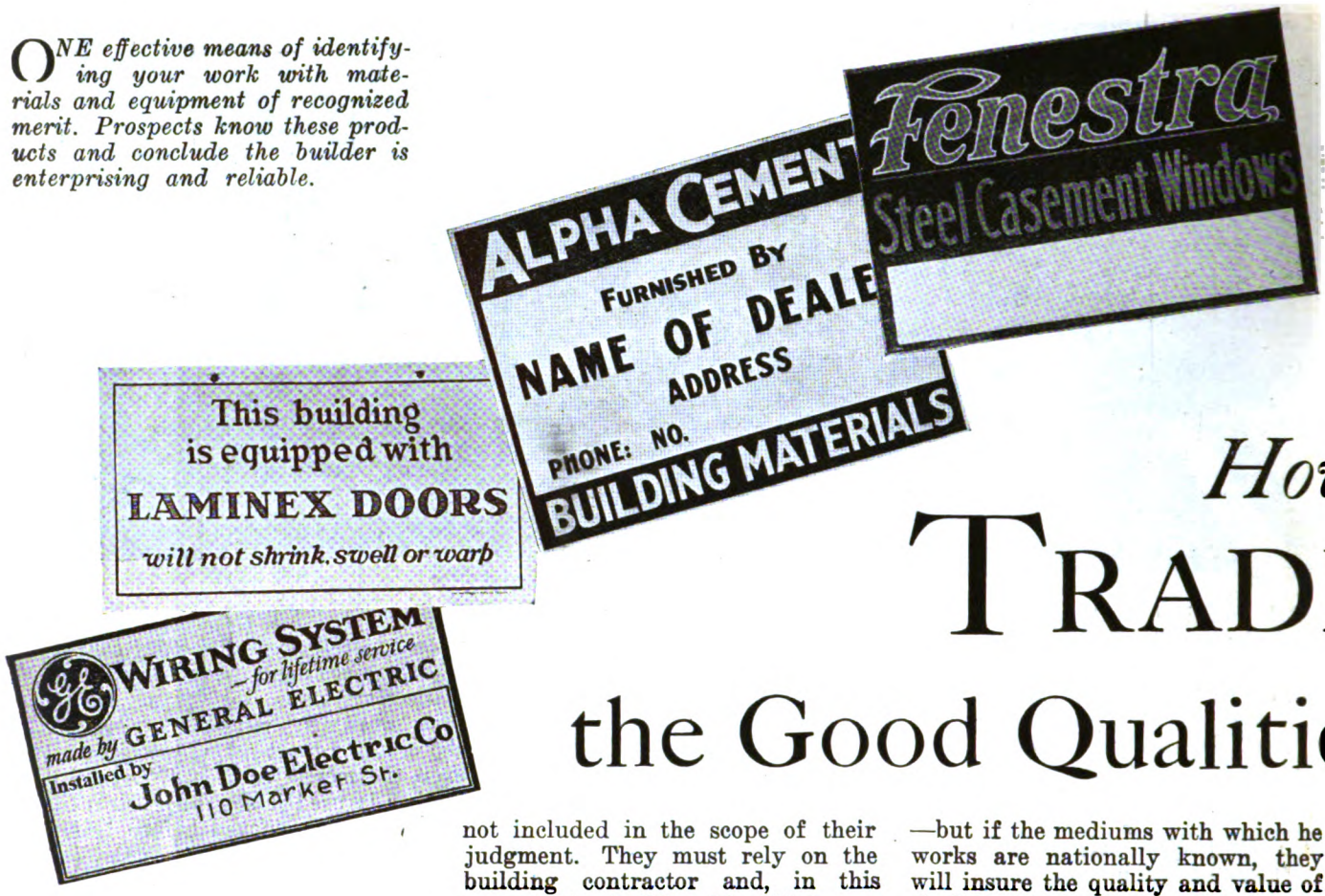
THE wheeler at extreme left is depending entirely upon luck. If the hoist should start suddenly he would be in real danger

THIS is obviously tremendously dangerous practice and the workmen should be thoroughly warned against doing it again. In this case the barrier rather than being a protection would be the means of injuring the man should the elevator drop



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ONE effective means of identifying your work with materials and equipment of recognized merit. Prospects know these products and conclude the builder is enterprising and reliable.



How TRADE the Good Qualities

YOUR prospects are not versed in the essentials of good construction. To establish in their minds trust in your ability and honesty, there must be provided some index of quality and guaranty of value received.

In every case worth consideration, the businesses with distribution to the public; i. e., to the consumer, have appealed to their prospects with an argument of standardization. The house wife prefers a certain brand of tea because she is assured through national publicity that its quality is of the best and is unvarying. The husband confines his choice in automobiles to a certain range within which he recognizes a consistency of worth. Both of these people, representing the average American family, unconsciously apply the same tests to building construction and equipment.

Their knowledge of details of construction is limited to a preference in the type of home they wish. A frame house, frame and stucco, brick, concrete—these types are listed in their minds in differing orders of importance. On a check list of permanence, economy and comfort, they size up each type and usually make their choice before the actual selection of a home is in order. Good construction practice is not included in the scope of their judgment. They must rely on the building contractor and, in this respect the builder himself is responsible for the factors that determine their estimate of him. His reputation in the community — the Good Will that he enjoys—is as powerful an asset to him as to the corner grocer or the city's leading bank.

His own personality is an important consideration in his general standing in the community. Then, the work that he has already done and the testimonials of former purchasers and clients play a leading part. Finally, and most importantly to the merchandising builder, is the reputation of the materials and equipment that go into the homes. The man may be new to the community—he may be only recently associated with the building field and still have a reputation to make —but if the mediums with which he works are nationally known, they will insure the quality and value of the homes he constructs.

It follows as a natural course in the mind of the prospect that no intelligent builder will buy the best that market offers only to use it slovenly and ineffectively. By best is not necessarily meant the most expensive. Development builders the country over are using standard materials and *underselling* less aggressive competitors.



A TYPICAL sign to be nailed conspicuously on the job. This identifies the building with a product well known to the public, and establishes confidence in the contractor

QUICKER turnover is the obvious advantage of quality identification. The builder sells not only the prospect who has definitely decided to make a selection but also to those who are literally "shopping around" for suitable properties. there is still another phase that demands consideration. That is the *class* of home buyer that the builder is interested in reaching. Even among prospects seeking homes within a certain range, there are wide divergences of taste and purchasing ability.

One group—and this represents the greater percentage by far—will be immediately interested in the idea of passessing a home boasting nationally known products. Another group will be on the lookout for economy only. Because these prospects sometimes are not financially able to buy, their estimate of "economy" will be more accurately

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MANUFACTURERS furnish signs like these with which to placard the job. They are weatherproofed and ready to be tacked or hung in place. The name of builder may be filled in.

You Can MARK of Your Work

"cheapness." It is not profitable for the builder to deal with this unit. It is evident that he had better sort his prospective buyers through an appeal of "accepted value".

As a builder of Trade Marked Homes, the builder must not overlook his opportunity to tie the name of his own organization with those of national products. One practical means is through the use of name plates, included as a permanent fixture in the house. A brass plate similar to the one illustrated has been used effectively in many cases. This carries the firm name, year of construction and the serial number of the building. Screwed to the front door jamb or other place this informs visitors to the home that the builder thought enough of his work to keep his name before the owners during the life of the house. Are not these visitors right in assuming that this builder must have respected his work and intended that the home would give entire satisfaction? In this thought they have struck at the root of successful advertising.

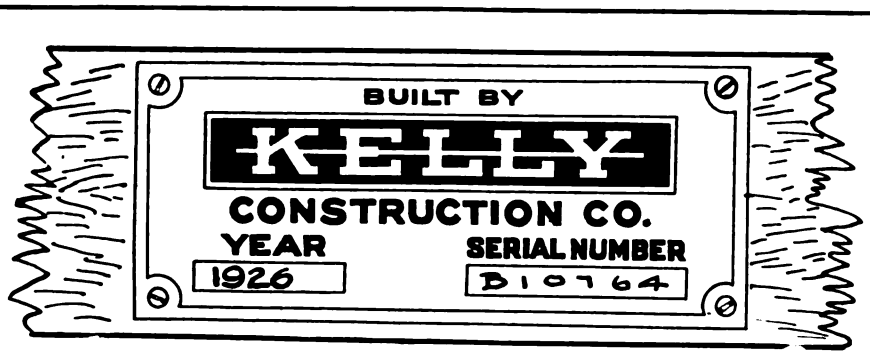
THE good merchandiser can exploit deserving products from the time ground is broken until the buyer takes occupancy. In addition to the use of prominent signs posted during progress, he may wish to correlate this publicity with space in local newspapers. It has become a common sight to see John Smith & Co., offering attractive homes in which the visitor "will find these nationally known products . . . . . ."

While homes are under construction, visitors can gain little from inspection unless they are under the guidance of an expert. On the other hand, if all basic materials are identified, they rightfully assume that the construction is good. Many builders have gone so far as to leave unfinished sections in floors and walls with each different material tagged plainly with the name of the manufacturer.

To the prospect who has seen this manufacturer's national advertising, this means something. More in fact, than a personally conducted tour by an enthusastic builder who has built well but failed to capitalize on the work that advertisers have done for him.

The builder whose reputation has already been established by long years of honest home building is not excepted in this consideration of merchandising possibilities. He may be substantially established but he still must keep abreast of the times. And the trend today is toward standardization of quality. He cannot afford to lag behind.

Construction ideas change from year to year and the public learns of improvements only through contact with local operations and publicity. A builder who was recognized as aggressive and reliable a few years ago may find himself behind the crowd if he fails to keep his prospects informed.



A brass plate similar to this one is the guaranty of the builder that the house will give satisfaction. It is a successful advertising medium used by many builders to create sales and stimulate trust

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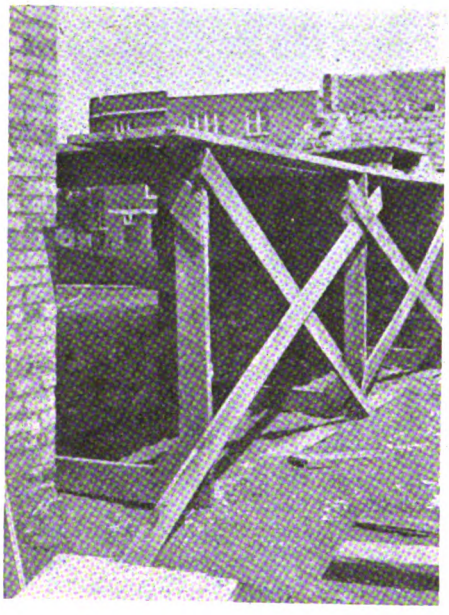
On the Job with the Construction Editor

Scaffold Squares

HERE is a kind of masons scaffold that is quite popular in some parts of the country, although its use is not as generally known as it may be thought.

Instead of using the ordinary horse scaffold, this contractor uses a series of squares, of 2″ x 6″, and braced by 1″ x 6″ nailed on at all the corners. This is an easy scaffold to build and one that may be easily moved about from job to job.

It is much simpler to build than a horse scaffold, requiring considerably less material and time. It is not, however, as simple to erect, nor is it as stable.



A horse scaffold is self supporting, but this square scaffold must be braced firmly if it is to be at all secure.

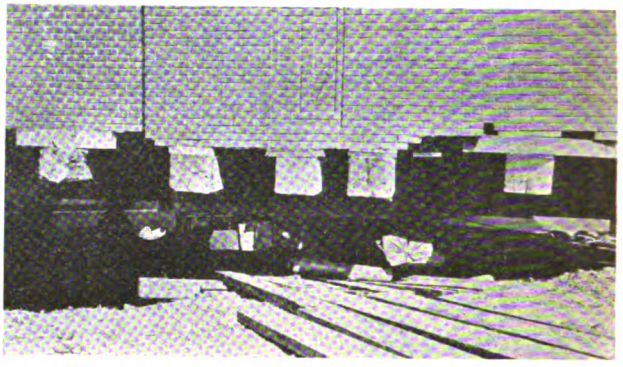
It has, however, many good points chief among which are its low cost and easy portability.

On Attractive Garden Paths

THERE are painfully neat and tidy paths and other that are hot, hard, muddy and untidy. It is not often one meets with the ideal path—one which is pleasant to walk upon in wet or dry weather.

Probably the most popular paths, if popular be gauged by the number in use, are those of asphalt. But these, to my mind, are not most serviceable. They require almost yearly attention, or they soon get out of order. They are always hard to the feet and to the feeling, for they are hard in color and hard to fall on.

Another type adopted in some suburbs is the neat, clean and formal cement path with its concrete edgings. These are not so hot as the asphalt ones, but are equally beloved by builders whose idea is to cover as much ground as they can with turf and the rest with cement or tar. These are the ones that we meet in public institutions of any kind, where cleanliness is absolutely necessary. Round the home, however, these hard paths are too formal and do not always harmonize.



Bricks laid in crazy patterns are sometimes used in some municipalities and imitated in gardens. These are preferred to cement and tar; they do become the garden looking in comparison and they are certainly more practical than the fancy glazed tiles, as seen on verandahs. A garden is a place to potter about in and to make a mess at times, in all kinds of weather. Glazed tiles and muddy boots don't go well together.

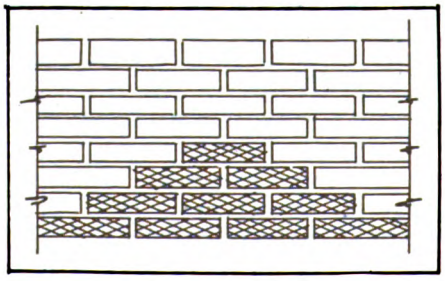
A properly made gravel path is the thing, formed so that the water runs from it as off a duck's back, subdrained and trenched, for it is a part of the garden.

I consider good gravel paths those made as you make a chip tennis court, sanded on the surface. These are very pleasing and will stand a good deal of wear and tear if the necessary attention is given at the right time. In prolonged dry weather, they are apt to break and crack up, but a little watering will close up the cracks and the surface can be made even and smooth again with a light sanding if the roller is run over it before it gets too dry.—**J. B. Roswick.**

What Holds Brick Up

MANY persons when watching a house-moving job have commented on the fact that nothing seems to support the brickwork between the points where it rests on the timbers upon which the house is carried.

This is made possible due to the corbelling effect of brick masonry where it is laid with joints broken. The only part of the wall unsupported is the part formed by the triangle between the two supports as is shown in the sketch.



The rest of the masonry above this triangles is carried by the overhanging brick and is in no danger of coming down. It's reasonably safe to assume that a few courses of brick will hang without dropping out of the wall if the mortar has been given time to set properly, and this is why the triangle itself does not break loose from the wall.

Scaffolding for Building Chimney

WHERE residences of the average type are erected it is generally necessary to build a separate scaffold for the chimney since it is always necessary to build the chimney higher than the roof ridge in order to avoid back-draft.



Here is a type of scaffold that is safe, easy to erect, and easy to take down. It consists of a series of posts, set on each side of the chimney, and resting on the ground. The posts are taller than the top of the chimney is to be.

The 2″ x 4″ 's are rested on the roof, and a toe is nailed to one end so that it will grip the ridge and thus be prevented from sliding down from the roof. Then horizontal 2″ x 4″ 's are run from the posts to the two 2″ x 4″ 's resting on the roof. Scaffold plank may be rested on these horizontal pieces and the masons may safely work on these planks.

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On the Job with the Construction Editor

Stone Setters Wheelbarrow

THERE is a considerable expense item attached to every stone job, and the unfortunate fact is that this one item which means so much is so often neglected. It is the transporting of the stone about the job to the place where it is to be installed. In some cases, this factor is so great that it may well represent the difference between a profit and a loss on a job.

Where it is necessary to haul stone about on the job, the low stone setter's wheel barrow illustrated here will be found to be a considerable convenience. It is nothing more or less than an ordinary wheel barrow with the legs cut off. It must be borne in mind that in order to be transported about the job it is necessary to lift the stone on and off the wheel barrow. It is a good deal easier



on the men to have them lift the stone only to the short height of the wheel barrow shown here than it would be to have to lift it into a wheelbarrow of ordinary height.

Another item to be taken into account is the fact that it is a good deal easier to handle a wheelbarrow of this kind, especially if large and heavy pieces are to be handled, due to the low center of gravity of the load.

A Wooden Water Tank Experience

THE following experience is related here for the benefit of the rural district carpenter, and even some of the big town "fellers" may have a similar problem to solve sometime. A farmer living about four miles north of Manito, Mason Co., Illinois, had a battery of two large round wooden tanks, one of which was kept full of water all the time as a reserve. These tanks worked down on to the ground and both had rotted nearly to the leaking point on the front side, though the bottoms were perfectly sound. In addition, the stock had gnawed the top into zig-zag scallops.

The writer was asked to put the tanks in good condition. To the job we took two lengths of gauge 27 galvanized iron 26 x 150", (one seam each formed and soldered in a tin shop) two hard pine, 1 x 4" boards. The 4" sides of the strips were tapered to nearly a feather edge at the top.

A few pounds of 3d fine nails, a quantity of linen cloth and plenty of the mixture described heretofore in BUILDING AGE, i.e. mix oxide of iron to a comparatively dry mass with coal tar, then mix thoroughly to the consistency of glaziers putty with boiled linseed oil. We have used this frequently on similar repair work.

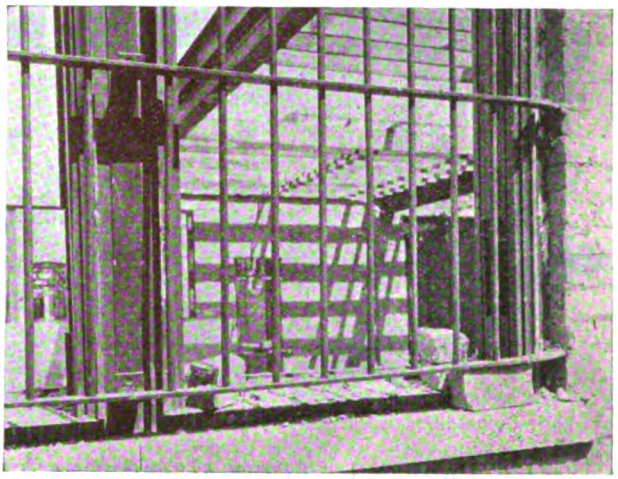
We disconnected the water connection and dried out the tank, painted a strip around its bottom edge several inches wide, with a portion of the mixture slightly thinned. Linen strips were cut two inches wide and painted with the thinned mixture with which to cover the bottom edge of the tank. One edge of a galvanized iron strip was notched one inch, and the notches flanged forward as that when the sheet was formed round inside the tank these edges overlapped one another.

As the tank tapered, we set the wood strip down inside the tank so that when the metal was properly in place in the tank the strip of wood filled in between it and the wooden side and afforded a backing to which we could nail the perpendicular seam of the metal formed by overlapping the ends of the galvanized lining. The wood strip center was covered with a strip of the prepared linen cloth also.

With a small trowel or wood paddle, smear over the linen strips generously with the mixture, and set the notched edges of metal on top of it.

With the galvanized iron sheet snugly in place inside the wooden tank we nailed through the metal linen and mixture, into the bottom and side strip using 3d, fine and putting them so close together that the nail heads almost touched. The bottom and side seam were recoated, smoothed down and drawn to a feather edge toward the center.

The top edge of the sheet was notched and bent over the gnawed, uneven edge of the tank, and nailed down smooth and even. The same procedure was followed in repairing the other tank and in the meantime the finished tank was filled. No leak could be detected. The following Saturday the farmer came to town, and reported that as far as he could see neither tank had leaked a drop. He stated that he preferred them to new iron tanks because he thought the wood around the iron kept the water cooler. The last we heard, these tanks were still good.—**L. S. Bonbrake.**



Bars Permit Opening of Window

HERE is a means of attaching an iron window bar and at the same time providing a means of opening a hinged window.

Instead of being set flush in the wall the holder bar to which the vertical bars are fastened, is curved so that it is set some distance away from the face of the wall.

This distance is far enough to permit the opening of the hinged window yet not so great as will admit the passage of a potential burglar.

Saving Cost Steel Beam

STEEL is expensive, especially when it is necessary to buy long lengths of steel I beams. Here is an instance, however, where a contractor saved money on an installation which required the widening of an opening in a wall.

The opening was originally spanned by a lintel consisting of three steel I beams, set side by side. As the opening was to be made wider, however, this meant that another lintel would have to be ordered. The contractor however, conceived the idea of corbeling out the brick wall at the sides of the opening as illustrated below.



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TALKS with and Correspondence from our READERS



Conducted by the Building Counsellor

"TALKING ABOUT ACCEPTING SUGGESTIONS from ignorant persons," the Building Counsellor said as he beamed upon his visitors, "reminds me of a little kink suggested to me by a laborer twenty years ago."

"HE WAS, what is known in the South, 'poor white trash' and could neither read nor write. We were concreting in the winter time and our steam pipe from the boiler to the mixer had a long run. The cold snap came suddenly and put the pipe out of commission. Steam just simply would not flow and the engine filled with water. We were a long way from any place in which insulating material was sold and as a makeshift wrapped the pipe in several layers of brown paper and covered this with burlap. The work was just completed when it rained, completely ruining the work before we could cover it. Wet insulation, as every one should know, is no insulation at all.

"THIS LABORER SUGGESTED that we make a box about six by six inches and place the pipe in the center. Then to mix up a thick paste of flour and sawdust and fill the box with it. This was done and the cover of the box was made of two pieces sloping to either side like a shed roof. The hot steam cooked the paste and dried the sawdust. The result was a very efficient insulation. It was not the only time I was able to add to my practical knowledge of things, each kink making me more useful to my employers. No man should be ashamed to accept constructive suggestions. Only false pride makes a man reject aid from sources that he assumes to be incapable of assisting in his problems."

• • •

"FIRE PREVENTION WEEK has come again and gone. What strikes me as peculiar is that so many people think their duty in the direction of fire prevention is done when they observe this one week each year in a properly solemn manner.

"UNFORTUNATELY the special week set apart for prayer over and study of, our great national sin of carelessness appears to be the signal for a renewed battle over materials. Such quarrels do harm. Every material has certain merits that others lack. It is also a fact that the use of materials in a home is largely a matter of temperament. It is like religion and politics in this respect.

"THE DISCUSSION of good construction is entirely apart from the discussion of materials. It is stated that in residences about seventy per cent of the fires start in cellars. It is wise therefore to make the ground floors, that serve to cover basements, of incombustible materials. This will help to cut down the damage due to fires that start in cellars. It does not do away with such fires. This can be done only by doing away with cellars and nobody can deny that the majority of cellars are entirely too large. There is so much waste space in cellars that a year ago prizes were given for the best plans submitted for utilizing cellar space.

"THE OLD ATTIC has practically disappeared but the cellar has taken its place as a storage place for discarded objects. Cellars are dirty and cannot be kept clean. They cost as much per cubic foot as other really necessary rooms yet, outside of the space required for heating apparatus and coal storage, these immense chambers are not needed. Some people think they are necessary in order that a house may be dry and healthy. These features may be secured, at considerably less cost, by having the ground floor two feet above the ground, with screened openings for ventilation in the foundation walls. The ground should be levelled and covered with tarred gravel and broken lime so no weeds can grow and vermin cannot live. This will greatly reduce the cost of a house and also lessen the risk from fire.

"HAVING SPENT SEVERAL YEARS in European countries, where I made a study of building construction and fire fighting methods, my admiration for the superior construction of European houses long ago disappeared. The reason fire losses are lower in European countries is due largely to the habits of the people. It fell to my lot in the 'mopping-up' after the Armistice, to

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Talks with and Correspondence from Our Readers

settle damage claims all over France. The French people have a climate that does not fit well into American house heating methods. It is changeable and damp rather than cold, in fact very similar to the climate in the British Islands. The people also must pay well for fuel. The result has been to make them eat heartily of fattening foods and dress in warm clothing. Their houses are never comfortable for an American who is accustomed to very high temperatures in summer and very low temperatures in winter, both extremes for weeks and months at a stretch.

"OUR MEN were not there long enough to change the habits of a lifetime. They insisted upon sleeping with windows open and did their best to obtain an inside temperature of 70 degrees Fahrenheit. The result was that many houses were burned down. There was wood everywhere except in the outside walls and on the roofs. Instead of wood shingles the ordinary roof covering consisted of very thin clay tile about as large as shingles. Stone, brick and tile walls were used only because they were cheaper than wood. The interiors were so old and the wood so dry and well seasoned that when a fire started the house was gone. Were the French people to become overnight as careless and happy-go-lucky as the average American is, they would have just as bad a fire record as we have.

"THE CONSTRUCTION of the average home in the United States is fully as good as the construction of a similar house in any European country. In fact we have better dimension stuff to work with and better lumber. The Europeans have very strict ideas regarding responsibility. Every fire is cause for an investigation and the responsible party pays high. Carelessness is no excuse. A person found guilty of carelessness in causing a fire is marked. When he moves into a new neighborhood the fire insurance rates go up, so that he penalizes a district. In fact, any man who has been found guilty of starting a fire through carelessness is about as welcome as a man who is known to be a carrier of typhoid, scarlet fever or small-pox germs.

"I WOULD LIKE TO SEE a 'Cellar Prevention Week' started to break people of the habit of demanding cellars, which they can learn very easily to do without. I lived for several years in a house without a cellar, in which a pit was provided for the furnace and fuel only. Since then I have been a crank on the subject of cellars. Insurance men tell us that seventy per cent of house fires start in cellars. We know that cellars cost a lot of money and serve no useful purpose, except perhaps in farm houses. Every day that sees a cellarless house built is a 'Fire Prevention Day' and a 'Thrift Day' as well. In the cellar we need room only for the furnace and fuel bin."

* * *

"CO-OPERATIVE APARTMENTS are becoming increasingly popular. They are built usually by a company that has obtained a first mortgage on the land and building and which advances money on a second mortgage. The apartments are sold on the basis of a monthly payment that usually is lower than the rent for similar apartments elsewhere. This monthly payment is assumed to cover all operating costs, including taxes and management. The tenant owners assume that within a period that varies with the project from twelve to eighteen years, the first mortgage will be reduced about two-thirds and the second mortgage will be paid.

"THE COMPANY selling the property is in charge of the management until the second mortgage is amortized. The monthly charge is assumed to be sufficient to take care of all outside repairs, painting and up-keep of grounds, while the tenant owner is held responsible for proper upkeep of the interior. The idea has worked, and is working, well with high grade developments. It is not working uniformly well with developments wherein the monthly rentals are less than $15 per room.

"THE FAULT so far found has been that estimates of monthly charges have been too low. Taking a concrete example; the apartments rent for an average of about $12 per room. They are comparable in construction and finish with apartments renting for $20 and $25 per room. The promoters could just as easily have asked $15 per room, and the tenant owners would then have been better off than elsewhere, considering rent only. When it is considered that each monthly payment increases the equity and that in time ownership will be assured by small monthly payments, this larger monthly payment is not out of place.

"THE ADDITIONAL MONEY should be secured for the purpose of keeping the property and grounds in good condition. The initial payment is ten per cent of the ultimate purchase price. This immediately gives an equity in the property which is increased each month when rent is paid. The mistake in the arrangements is that the selling company permits individual tenants to let the property to run down if they feel so inclined. The tenant owners elect trustees who really are but figure-heads in a board controlled by the holders of the second mortgage.

"MUCH BETTER RESULTS usually would be obtained by adopting the principle used by men who sell other articles on the installment plan. The ten per cent down payment should be a sum on which interest should be allowed and be a guarantee fund to be drawn upon in case of default of monthly payments. The contract should be a contract for the sale of stock in the co-operative company owning the apartments, this stock to be delivered when the final payment is made, but earnings on proportions of the stock paid for in monthly installments to be added to the amount of the down payment. The selling company should be looked upon as the sole owner until the second mortgage is cleared off and the first mortgage is about two-thirds paid up.

"In this way the selling company will have full control over repairs, maintenance, painting, etc.,

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and the tenant owners, properly installment purchasers, will be protected. It is not fair for good people in such apartment houses to be compelled to live with people who are careless about appearances of their homes. Careless people ruin the value of property being purchased by people who really care about the looks of the places in which they live. Shiftlessness has ruined many a promising development of single and semi-detached homes. It promises now to be the ruination of a number of promising co-operative apartment house projects."

* * *

"WE DISCUSSED LAST MONTH the slowness of some architects and builders to change from established practice. Much of what is established practice exists because of thoughtlessness. In Figure 1 is shown an example. It will be noticed that the metal roof on the entrance finishes flush so that the cornice is stained and badly streaked by the water that runs off of the roof. The owner on the right went to the expense of installing copper leaders and down-spout, an unjustifiable expense when the small drainage area is taken into account.

"THIS ENTRANCE is typical of a number on buildings erected in a certain land development project near one of the largest cities in the world. It is on the street that forms the main entrance to the development and therefore is seen by every prospective purchaser. The building was erected two years ago and the photograph was taken at the end of the third summer. The architects for the company are nationally known, yet in buildings designed lately and now under construction, this detail is not departed from.

"ALL OF THE HOUSES have light colored paint and markings made by dirty water flowing from the roofs of entrances stick out in a very bad manner. It shows the effect of merely copying old details and making no effort to correct defects.



FIG. 1. Photograph of entrance to house showing how the roof washings disfigure the light colored paint. Since this photograph was taken the cornice has become so badly stained that few streaks of light colored paint are visible. The front face of the porch column in the foreground now has a fairly uniform dark color, in strong contrast with the sides that are not colored by roof washings.

Every house that is built should serve as an experimental laboratory for designers and detailers. I had charge of similar work in a western state thirty years ago and after the fall rains had stained some light colored cornices the detail was changed to provide for a drip. We learned our

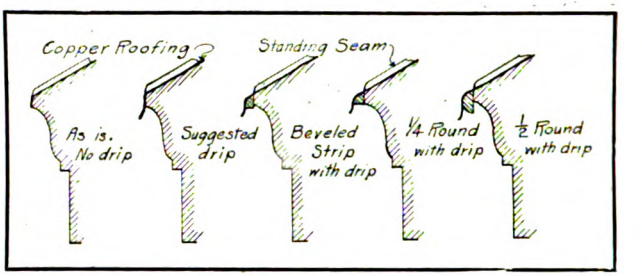


FIG. 2. Details showing how the staining shown in Fig. 1 might have been prevented. Failure to provide a drip has destroyed the appearance of many cornices

lesson inside of three months, after one rain. The people whose work is here presented apparently never will learn from experience, but must depend upon being shown up. Before applying the metal roofing a strip of half-round or quarter-round should be used on which to fasten the metal and form a drip, as shown in Figure 2."

* * *

"WHAT IS THE REAL VALUE of an apartment house? This is a question that is agitating realty men and speculative builders just now. Some men say that the value is based upon the cost of replacement of the building plus sale value of the land. To this others object by calling attention to the cost of financing which frequently is very high and adds unduly to the cost of building in many localities.

"IT HAS FINALLY BEEN DECIDED that the value of a house depends upon the income one may be certain of deriving from it. It has taken a long time for men to be brave enough to state this elemental principle of investment value. A three per cent bond may be sold to the public under the stress of war conditions at par value. When normal conditions return the value of the bond is based upon the normal interest return. This was learned by millions of patriotic Americans in the Liberty Bond days. It was a shock to learn that a Government bond with a par value of $100 had an actual value based upon the fact that people with capital to invest wished to have a return of at least five per cent, the result being a drop to three-fifths of par value.

"DURING THE FEVERISH post-war building period men paid most unreasonable sums for financing buildings they put up on a 'shoe-string.' These buildings then were filled with tenants paying high rents. Some of the buildings thus filled up were sold but the history of others has been discouraging. Built at the peak of financing costs and at the peak of labor and material costs with the expectation of a quick filling with tenants at high rents the result has been disappointing.

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The time has come for a re-assessment and the burning question as to what the real value of a building may be is settled definitely. A building has a sales value based solely upon its incoming poducing possibilities. The last building erected in a neighborhood settles the rent question, and finally, the values of all the other buildings in the vicinity.

"SPECULATIVE BUILDERS usually are not students of political economy, or economics, to use the more modern term. The theory of market value must be adjusted to variable supply and variable demand. The buyer is the one who fixes price and before a sale is made there is merely a conflict of opinions about value. Value becomes price at the moment of exchange. A study of the interesting subjects of diminishing utility and marginal utility, would be of considerable value to speculative builders."

* * *

"ANOTHER BAD DETAIL is shown in Figure 3. The down spouts on brick buildings have large heads but the spouts themselves are three inches in diameter. The conductor box through the eight inch wall projects four inches from the face of the wall.

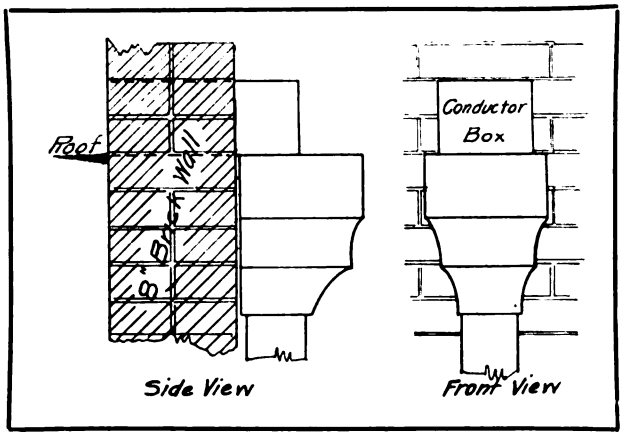


FIG. 3. Defective detail in connections to conductor heads causes overflows and splashing of wall in summer. They also cause ice to form and cause overflows in winter

"THIS CAUSES the water to fall into the head and not directly into the down spout, or leader. I have watched several of these drains operating the past summer during heavy downpours. The water fairly boiled over the edges of the leader head and splashed on the brick walls to such an extent that wall paper on the inside faces became moldy. Needless to say the inside faces were not furred.

"LAST WINTER the dripping water caused icicles to form and join the end of the conductor box to the leader box. Nobody was interested in keeping the boxes clean. When the big thaws came all of the water from the roof ran over the surfaces of the ice sheet and down the outside, instead of the inside, of the down spout. This again made the brick walls damp. The remedy is simple. The conductor boxes were set in place by the brick-masons and when the sheet metal contractors put the leaders and leader heads in place they did not touch the conductor boxes. They should have taken a pair of snips and cut the lower edges back to within not to exceed one and one-half inches of the wall and bent the bottoms down. Then when there is merely a drip all the water will go vertically into the leaders.

"ICICLES WHEN FORMED will be vertical and go down into the leaders. There is a practical limit to the length of an icicle and therefore with this short projection there is slight danger of a stoppage during freezing weather. Do you know, that it is a little thing like this that makes or ruins the reputations of designers and builders? In my many years of experience I have seen men get away with large errors, but the little things continually make trouble. You may expect me to do a lot of talking along this line. It will help a lot if everyone that reads this department will send in items about the little things that bother his sense of what is right and proper."

* * *

"RECENT ADVICES INDICATE that generally speaking, the demand for houses has been pretty well met in medium size and large cities. The present trend in building is towards industrial buildings, light factories and stores. Old places are being modernized and additions are being built to many plants.

"HAND TO MOUTH BUYING has stabilized many industries and extensions to plant can be budgetted. This is a good sign. Merchants no longer stock up for a year ahead, nor for even six months. They buy as they require goods. It keeps the factories busy and insures even employment of labor, consequently a fairly steady activity in every line of industry. This is good for the building business.

"THE RIGHT OF EMPLOYEES to organize into unions and do collective bargaining is something that was gained by organization into trade unions. The fear that many people had of trades unions is being dissipated in a very simple way. It appears to many to be ridiculous, yet we are assured solemnly by authorities that it is true. Installment buying is doing more to destroy the evils in the organization of labor than any other single thing. Discontented men were able to rally around them thousands of their fellows who were envious of the luxuries enjoyed by more fortunate ones. It was disheartening to contemplate long years of driving labor and penurious saving until desirable things could be obtained. Installment buying changed all this. Now men can enjoy the things they desire and pay for them as they go. In this respect installment buying is good. That it may be abused goes without question, but the problem is being studied and in time this method of selling will be freed from danger. The present prosperity of the United States is due very largely to installment buying by the people and small advance committments, known as 'hand to mouth buying' on the part of dealers. Labor unions are

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Talks with and Correspondence from Our Readers

becoming associations of a co-operative nature, their funds now being loaned through labor banks to industries. The number in the ranks of organized labor are diminishing but the unions themselves are becoming important in the capitalist world."

• • •

"HERE IS ANOTHER DETAIL that does not look good to me. In a real estate development they are putting up brick houses with eight-inch walls. The building Department compels the builders to have a thickness of twelve inches between joists.

"THIS IS ACCOMPLISHED by nailing a four inch strip to the underside of the joists to form a support for the four inch projection of brick. Be-

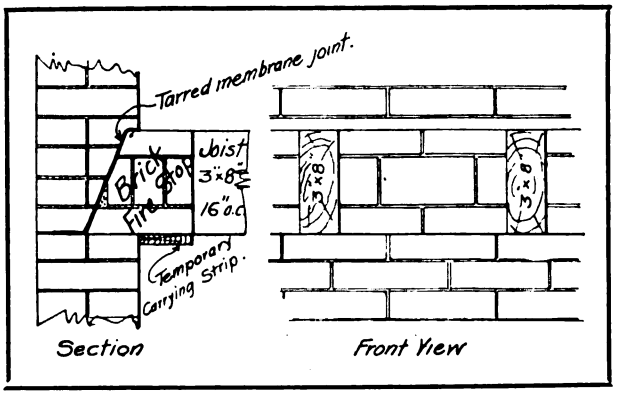


FIG. 4. A curious detail actually used in the construction of some two-story houses with eight inch brick walls. The brick projecting between joists were put in by order of the Building Department to serve as a fire-stop

fore the lathers begin work the strip is removed, for the mortar by that time is assumed to be set sufficiently to take care of the four inch projection of brick. I would like to ask what all of you think of that, because it usually has been good practice to corbel brick out in several courses. An oversailing course might seem proper here but it would make it necessary to cove the ceilings.

"THE CONSTRUCTION mentioned is shown in Figure 4, together with a novel, and what I consider to be dangerous, method for making the walls at this point watertight. In buildings erected in 1924 and 1925 water came in between floors and ceilings, staining the ceilings and walls. In the buildings now under construction a membrane of asphalted felt (paper on some buildings) was put in place as shown.

"THIS MEMBRANE lies between two mopped layers of asphalt. The details called for a vertical joint but in some of the buildings the workmen laid the projecting courses of brick to line with the sloped ends of the floor joists. Then they covered the ends of the joists with cement mortar before applying the mop coat of asphalt. Thus the joint along the whole length of the building slopes instead of being vertical. Furthermore it makes a bearing of but four inches at the ceiling level for an eight inch wall, with a lubricated joint having a slope towards the outside face.

"FROM THE SECOND FLOOR to the ceiling the height is nearly nine feet. The eave of the roof rests upon the wall a foot or two above the second floor ceiling, there being a similar joint here. Thus there are two lubricated joints in the wall and one does not require to have a strong imagination to picture what may happen when a strong wind beats upon the houses at a time when they are well heated on the interior. The two asphalt layers with a sheet of asphalt felt or paper between certainly do not add strength.

"THERE WAS AN ATTEMPT MADE to improve matters by tying every fourth joist to the wall but such ties cannot be very efficient when they pierce the membrane and go into the joints of the four inch facing brick. The proper place to put the ties on joists is at the bottom, otherwise the cutting of the ends on a slope is labor lost. The object in sloping the ends of joists is to enable them to fall out of a wall in case of fire without pulling down the wall. This indicates that ties should be at the bottom. In the work under criticism the ties were about the middle of the joists."

• • •

"THE MAKING OF A JOINT at the floor levels in an eight inch wall is not a difficult matter, if thought is given to it. In the case mentioned the idea was obtained from salesmen for a waterproofing company, who apparently did not take into consideration that they were dealing with an eight inch bearing wall. Had it been a non-bearing wall, or a spandrel wall in a sky-scraper the detail would have been all right, provided the membrane were vertical.

"I HAD THIS PROBLEM presented to me many years ago. The course immediately under the joists was laid as a stringer course with the vertical joints on the face and inside of wall only half filled and no mortar in the vertical joint in the middle of the wall. The horizontal joints on top of this course were half-filled with mortar on the two faces and galvanized iron ties were used to tie the faces together. The outside facing course on this lower course consisted of two stringer courses of bricks on edge, only the outside course having joints filled with mortar, the inside course having a bed of mortar to rest upon and no mortar in the vertical joints. The courses on the inside face were header courses projecting between the joists with the lower horizontal joint filled flush and the upper horizontal joint only half-filled with mortar. Heavy galvanized metal ties were used to connect the two faces.

"WHEN THE BRICKWORK reached this height the unfilled vertical and horizontal spaces were filled with liquid asphalt of a grade that became firm, but not brittle, within a few days. Stringer courses then were laid on the inside between the joists and header courses, of half brick, were laid on the outside face. All of the joints were half-filled with mortar and heavy galvanized ties were used. Each course after laying had the unfilled spaces filled with the asphalt. The work

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Talks with and Correspondence from Our Readers

proceded in this manner until it was one course above the tops of the joists, when regular laying was resumed. This construction thus had courses tied with metal ties, so that the wall was not weakened. The exposed joints have mortar and in the interior, out of sight and held in by the mortar, is a flexible asphalt filling. No rains ever can get through and it is as strong as any portion of the wall elsewhere."

• • •

"THE DETAILS CRITICIZED above were all passed upon and approved by men of eminence in the profession of architecture. I was told that a well known consulting engineer approved the membrane joint in the eight-inch brick walls. If so it is evident that he gave no serious consideration to it. He might have given an opinion of a sort at a luncheon, no charge being made for this opinion. Otherwise it appears to be incredible that a man truly entitled to be styled eminent, should approve of such construction.

"EXPERIENCE HAS PROVED to me that faulty details usually result from hasty action. Men are set to work on a time limit, as it were, and ideas they present are not given proper review. Here is where one can well follow the adage of counting one hundred before reaching a decision. In the offices of architects, engineers and builders every detail should be submitted for criticism to several men. In time each office will collect a set of practical details. Then when buildings have been some time in use visits should be paid to them and the tenants asked if they have any suggestions to make. Few of the suggestions obtained in this manner will be of value, but if one good idea is obtained from questioning one hundred families it is worth the trouble. Plenty of criticisms will be received and but few will be constructive. This fact should not deter one from making the investigation. One often obtains valuable ideas from apparently ignorant people."

• • •

"W. J. B., GREENVILLE, S. C., asks about material for coloring mortar black.

"SOME MANUFACTURERS of mortar colors advertise in BUILDING AGE AND NATIONAL BUILDER. Ordinarily common lampblack that may be purchased from building material dealers and in paint and drug stores, is used. It does not hold the color however, turning gray after a short exposure to sunlight. For a very dark color use 4 lbs. of dry lampblack for each bag of cement, mixing the two materials together dry before adding the cement to the mortar. Never use more than this amount, for it weakens the mortar. One-fourth of this amount gives a light slate color, increased amounts giving any desired shade to suit taste."

• • •

"J. A. K., TORONTO, ONT., says that his masons claim that hydrated lime is too 'short' to work well in mortar. He asks if this can be remedied.

.."HYDRATED LIME is as satisfactory as any lime if mixed with calcium aluminate, which is a by-product from blast furnace slag. Commercially it is known as Alca lime and may be obtained from building material dealers practically everywhere."

• • •

"R. M. W., PHILADELPHIA, PA., has trouble with a white deposit on the face brick of his fireplace.

"TRY A TEN PER CENT SOLUTION of muriatic acid. If this fails, then try a solution of the same strength of hydrochloric acid or of hydrofluoric acid. Apply to the surface and scrub vigorously with a very fine wire brush. Rinse immediately with clean water. Too strong a solution may affect the mortar joints."

• • •

"B. A. E., PHILADELPHIA, PA., sends in the perennial question as to how he can best clean dirty finger marks from freshly finished white walls with a hard finish.

"BON AMI POWDER sprinkled on a damp piece of cloth and rubbed lightly over the spots will remove them. Wash the cloth thoroughly after cleaning each spot and before using it again, or it will become dirty and soil the wall."

• • •

"C. A. S., writes in from North Carolina that the walls of the local school house absorb a great deal of water during rains and the inside plastering is getting chalky and falling off. He asks if there is a waterproofing compound he can paint on the walls that will not change their color.

"IT IS A DIFFICULT INQUIRY to answer at long range. So much depends upon the quality of the brick and the kind of mortar used. Other things that enter in are the thickness of the walls and whether they are furred on the inside. From the statement of the problem one might imagine that the walls are not furred. It so happens that in the advertising pages there are some advertisements of companies that sell waterproofing materials and contract to make walls tight. They may know something that will not change the color of the wall. All of the practical hints for builders are not to be found in the editorial pages.

"THE OLD SYLVESTER PROCESS is one that requires the making of a mixture of 1 pound of aluminium sulphate in 1 gallon of water at a temperature of from 60 to 70 deg. Fah. and painting the wall with it, following this with a coat of a mixture consisting of about 2.2 pounds of hard soap in 1 gallon of water, applied boiling. The first coat should be dry before applying the second and the usual rule is to allow an interval of not less than 24 hours between the coats. One coat of each should take care of ordinary rains, but if it is not sufficient then put on another coat of each when the walls are dry. The wall will look greasy after treatment. The first coat will cover about 200 sq. ft. of surface, and each succeeding coat will cover about 400 to 500 sq. ft."

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News from the Field

Awards for Superior Craftsmanship

ELEVEN mechanics who have been working on the John Jay Hall building, the new dormitory for students for Columbia University in New York, received certificates of superior craftsmanship on Oct. 25th from R. H. Shreve, President of the New York Building Congress.

Dr. Nicholas Murray Butler, President of Columbia University addressed the men on behalf of Columbia University at the presentation ceremony. Other speakers at the exercises were Lionel Moses of McKim, Mead & White, for the architect; John Lowry of John Lowry, Inc., the builder; and John J. Collins, Tunnel & Subway Constructors Union, for labor. Mr. William O. Ludlow, Chairman of the Committee on Recognition of craftsmanship of the Congress, presided at the ceremony.

The men who are to receive the certificates of superior craftsmanship together with a gold button which they can wear in the lapel of their coats attesting to the fact that they have received the certificates, are as follows:

Charles Fried (Sheet Metal Worker), Max Geissler (Electrician), Herbert Agrill (Metal Lather), Andrew Meehan (Steamfitter), Leo Walsh (Plasterer), James McLean (Stone Setter), George Wagner (Cement Finisher), John Ardelian (Carpenter), Arthur Krupp (Plumber), James Coogan (Marble Setter), and Arthur Pearson (Bricklayer).

The building itself has been erected at a cost of nearly $2,000,000, and it will house and feed approximately 500 students. It is located right off the acmpus at Amsterdam Ave. and 114th.



Verdict on Florida Storm Damage

EXPERTS delegated to examine conditions in the Florida storm area have concluded almost unanimously that well constructed buildings withstood the gale successfully in almost every case. The general concensus of their opinions is to the effect that the work of the builder played a more important part than did any one particular type of material.

Representatives of various building materials interests turned to the storm swept belt to determine how well their materials withstood this most severe test. Results have been gratifying. For the most part all materials in use today "came through" excellently.

Property loss was high, true enough, but save in cases where structures were utterly unprotected, well built buildings did not suffer so tremendously.

Carl C. McClure of Ft. Myers, President of the Florida Association Real Estate Board, points out that although property loss caused by the storm has been placed as high as $50,000,000, this is barely more than one-third of the states total of building permits during the first eight months of the present year. Thus, the storm loss is offset by building permits by only a third part.

Calendar of Meetings

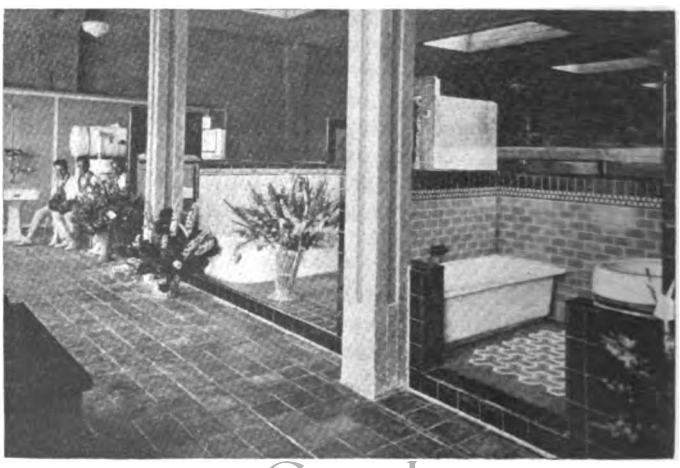
American Construction Council, 5th Annual Convention, to be held November 8, 9, 10, at the Cleveland Hotel, Cleveland, Ohio. A series of conferences will be held dealing with relations of industries to the public, public and private plans for housing financing, etc.

Attractive Building Material Exhibit

A VERY ambitious attempt toward educating building material buyers of Southern California to the advantages of quality products, has been made part of Hollywood Building Material Exhibit, 6916 Santa Monica Blvd., Hollywood, Cal. The exhibit occupies a reinforced concrete building, especially built for the purpose.

The design is interesting and aims at attracting the attention of the passer-by. The interior has been fitted to provide the best display advantage for individual booths. Every display space is provided with water, gas, electricity and sewer outlets.

The exhibit serves a double purpose as it enables the building industry to put its products before the public, and second, it enables the public to see and have demonstrated to them, a large number of building products located under one roof. The project has been opened but little over two months and already success of the display has been assured.



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News from the Field

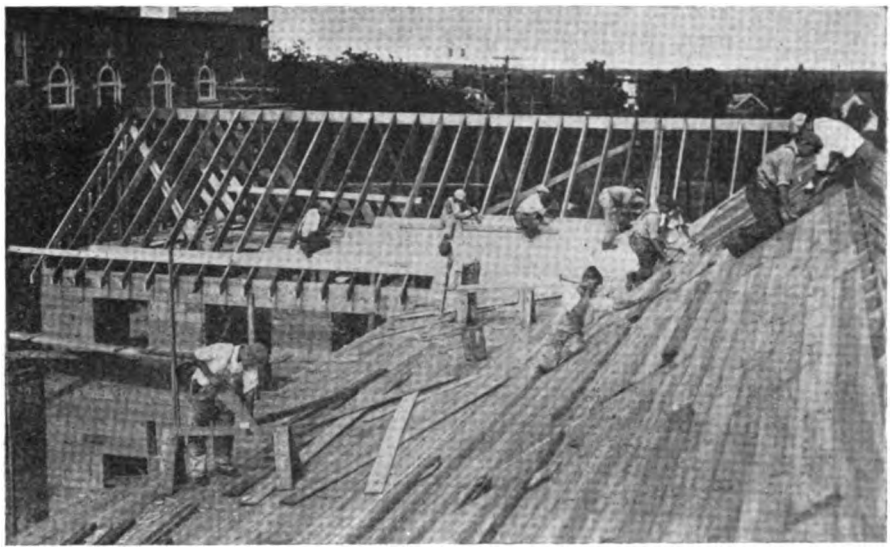
Own Your Home Show Strikes New Note

A PARTICULARLY interesting aspect of the forthcoming Ninth Annual "Own Your Home" Exposition, to be held in New York, February 19-26, 1927, and the Seventh Annual in Chicago, April 2-9, 1927, will be the enforced policy of "Inspection Before Acceptance for Exhibition" of all building materials to be shown.

The Exposition Management believes that it should not assume a competency it does not have in judging material values. As a result of this decision there will be accepted for exhibit only building materials that are included in the official classificaton covering the character of building materials eligible for exhibit, and then only after each individual concern has been approved and recommended by the Exhibit Committee under whose classification it belongs. Following this a test of material quality by the Architectural Committee on Management, whose final approval is necessary before the product is accepted for exhibit.

While this precautionary condition has been laid down to even more completely protect the interests of those for whom the "Own Your Home" Exposition primarily are conducted, as well as for the protection of legitimate manufacturers and dealers in building materials and equipment, every encouragement is given through the Exposition for the production and use and exhibit of other suitable materials, when such materials have, through tests under proper engineering supervision, proven of substantial value.

The forthcoming Expositions will mark the Ninth consecutive year for New York and the seventh consecutive year for Chicago. This year the outstanding feature from the standpoint of the public, aside from the comprehensive and complete showing of building materials and equipment already assured, will be the Court of Homes. The houses to be built will be of concrete products, clay products, frame and other materials that have demonstrated their worth, permanency and economy.



HAMMERING their way toward a diploma. Boys in the Industrial Arts Dept. of Weymouth (Mass.) High School are not agitators for the five-day week. They work six 8-hour days under the guidance of three competent carpenter-instructors. A nominal daily wage is paid each student

Exhibition for Lighting Equipment Assn.

SO many requests for a national exhibition have been received by the Artistic Lighting Equipment Association, that it has now been decided to make such an exhibition an annual affair to be held in various cities throughout the country. It will be attended by all interested in the field.

The first exhibition will be held in Cleveland January 31st to February 5th, 1927. Exhibition space is open only to members of the A. L. E. A.

Building Show

MILWAUKEE'S Fifth Annual Home Show will be held at Milwaukeo March 19 to 26, 1927, under the leadership of J. E. Rilling. 90 per cent of last year's exhibitors have already contracted for space in this show.

New Publications

Architecture by Lewis Mumford: Published by American Library Assn., of Chicago. This is one of the "Reading With A Purpose" series. Price 35c.

Pertinent Points on Building Conditions: Issued by the American Construction Council. Suggestions to investors and owners as to buying real estate securities on contemplated or new building construction. "Deal only with reliable investment houses"—"Consider purpose of building erection." Price 10c.



A "Snake Wall" of Common Brick—1926 Exhibit



Exhibit by R. Volk, Chicago Builder, in last show

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News from the field



A NEW ORLEANS dairy, appreciating t he value of publicity, built this attractive depot. Manufacturers could easily adapt this structure to their uses. Architects: Favrot & Livaudais; builders: George J. Glover

Industrial Housing

A SURVEY recently made by the National Association of Manufacturers asked those of its members that were successfully housing employees what method of financing is being used. Actual experiences apparently working out well are as follows'

Ten companies operate Building and Loan. Twenty-two companies give financial assistance to employees. This assistance varies in many ways. One company expects a 5% return on its investment. One company lends on mortgage to 90 per cent of the value of the property. One company lends money without profit for house building. One company lends on mortgage in proportion to funds invested in Employes' Saving Fund. One company builds houses and sells at cost to desirable families. One company selling stock to employes lends on it to builders of houses. Four companies own well-built modern houses and rent them to desirable families. One company rents its houses by the week from $1.85 for four-family apartments to $6.50 for single house per week and loses 3% on the venture to keep good families. Its plant is in a village some distance from the city.

While industrial housing conditions do not parallel the work of modern builders, these methods of financing and maintenance may provide an index that can be interpreted without the scope of the industrial field.

The Small Shop

THE SMALL SHOP has come into its own and where the builder can be on hand to promote the enterprise or make constructive suggestions, he will find the building worked profitably. Illustrated is a small millinery shop in Media, Pa., characteristic of the more attractive types being built today.

The structure is hollow tile and brick. This is ornate, and more important, it utilizes space on a side street that had formerly gone unused.

Everything from overhanging coping to arch brick work and large windows, add width and depth to what is really a building 12'x40'.

Outside finish is stucco and the effect is light in color and provides a presentable appearance, important in drawing the buyer inside.—**C. H. Thomas.**

* * *

Allied Heating and Ventilating Exhibition Assn., second annual meeting, to be held March 14th to 19th, 1927, at the 12th Regiment Armory, New York, Permanent executive offices: Suite 334, Hotel McAlpin, New York.

Urban Population and Zoning

MORE than half the urban population of the United States live in zoned cities and towns at present against about one-tenth in 1916, according to information obtained by the Division of Building and Housing of the Department of Commerce. There are now 436 municipalities with a population exceeding 27,500,000 inhabitants that have zoning reported zoning ordinances adopted.

The greatest development of zoning has taken place practically within the last ten years. The number of zoned cities increased from six at the end of 1916 to 73 by the end of 1921; to 265 by the end of 1923; to 425 by the end of 1925; and 11 additional places have reported zoning ordinances adopted since the first of the year.

In an effort to protect home owners, and other land owners, in the reasonable use of their property, these cities, towns and villages adopted zoning ordinances, according to Dr. John M. Gries, Chief of the Division of Building and Housing. He said that "zoning seeks so to regulate the use to which buildings may be put, the area of the lot that may be covered and the height of buildings in different sections of the city, so that the land in each district may be used for the purposes it is best suited." Provision is made, consequently, in properly drawn ordinances, to secure a neighborhood of small house, for example, against having a noisy factory site in its midst, with resulting losses not only in property values but also in peace and quiet. The factory owner, likewise, is apt to have the better choice of desirable level plant sites with good transportation facilities.



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How To Get Your Concrete Poured Before Winter Comes

At this time of the year there are a few straggling summer jobs and lots of fall work to be completed—all before winter ties things up.

It's a time of the year when contractors are looking for the fastest mixer on the market.

They must get their concrete laid within a time that seems almost impossible. But they tell us —

The 1-bag High Speed Rex 7-S has a surprising knack of turning out the desired "More Yards Per Day."

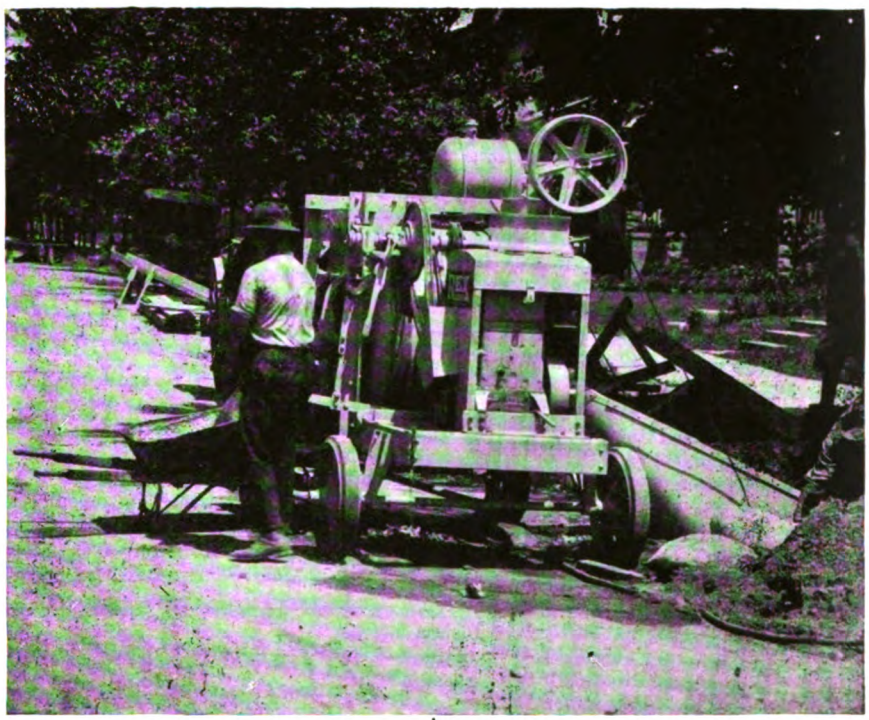
It is built on the famous REX HIGH SPEED IDEA — get the aggregates into and the concrete out of the drum faster.

The speed of the Rex 7-S is timed —you can discharge the drum while the loaded skip raises to its discharging position — not a minute is lost waiting.

Big blades inside the intake opening pull the aggregates into the drum faster—and the large, deep buckets get the mixed concrete out faster.

The wide drum openings speed up charging and discharging still more.

And as you go over the Rex 7-S, you'll find that every part right down to the automotive-type disc clutches and self-aligning bearings, is designed for long service and smooth operation.



Speed is not the only feature. This machine will stand up under the grind.

The Rex 7-S can mix more batches in a shorter time—can pour more concrete per day—and it can speed up your work before winter calls a halt.

The "More Yards Per Day" booklet shows how to get more yards per day, and how to complete your concrete work before winter ties things up. This coupon brings it.

CHAIN BELT COMPANY
723 Park Street, Milwaukee, Wis.

Check the size Rex in which you are interested and a booklet containing complete information on it will be mailed to you.

- ☐ ½ bag Tilter
- ☐ ½ to 1 bag Rex 5-S
- ☐ 1 bag Rex 7-S
- ☐ 2 to 3 bag Rex 14-S
- ☐ 5 to 6 bag Rex 21-E Paver
- ☐ 6 bag Rex 28-S

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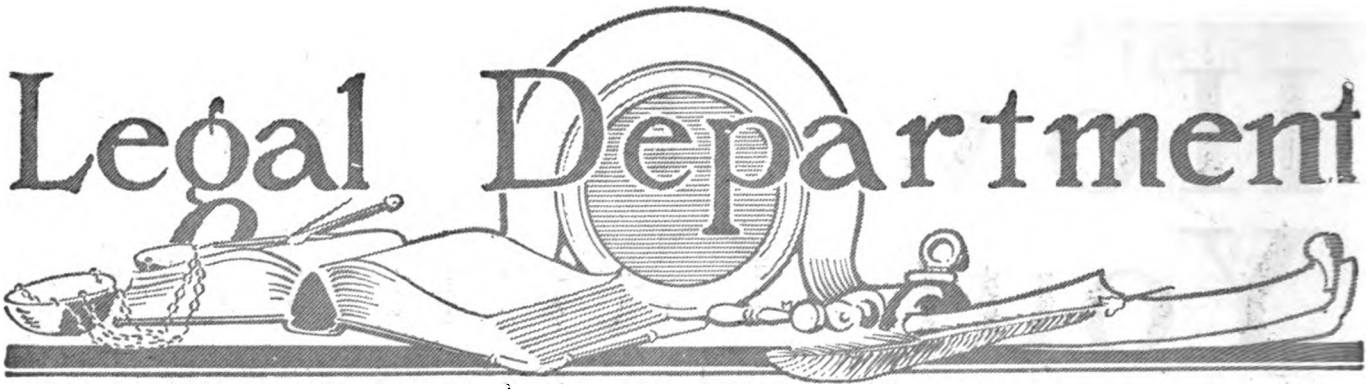
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Building Wrecker as "Independent Contractor"

By Arthur L. H. Street

WAS one employed to demolish a building an "employee" of the owner of the building, within the meaning of the Maine Workmen's Compensation Act, or was he an "independent contractor," relieving the owner from responsibility for fatal injury to him? That was the question presented to the Maine Supreme Judicial Court in the recent Clark Case, 126 Atlantic Reporter, 18.

The New York Utilities Company owned a frame structure in Kennebunkport. The demolition of that structure and the using of the lumber that would be salvaged to erect a building in another place was its purpose. Negotiations with Clark, whose business was that of a contractor, merged in a written agreement.

He undertook to tear down the building, in good and workmanlike manner, sort and grade the lumber, and then pile the lumber in places where the company should say. No time was set for the work to be begun or finished; and what was to be done and how is not more definite in the agreement than in effect it is stated here. The company promised payment at "regular daily wage charged by him (Clark) as a contractor for himself and said men" (his employees) "for the amount of time put in by said Joshua Clark and his said employees," payable in installments as the work progressed, and the balance on completion, but not to exceed $1,500 in all.

Clark and three men, whom he had hired, began work on the day that the agreement was made, doing the work in their own way, or at least according to Clark's ideas, no representative of the company assuming to exercise any control or direction as to its accomplishment. The accident occurred the next day. Clark fell to the ground from the roof of the building on which he was at work, and was so injured that he died soon afterward.

Holding that Clark was an independent contractor, the Supreme Judicial Court said:

"As a usual thing, the principal consideration in determining whether a person is an employee, as distinguished from an independent contractor, is the authoritative right of the employer to control, not simply the result of the work, but the means and methods and manner by which the result is to be attained. If the employer has authority to direct what shall be done, and when and how it shall be done, and to discharge him disobeying such authority and direction, and if the employer would be liable to third persons for misconduct of the worker, the other party to the relationship is an employee . . . .

"Whether payment is to be by the piece or the job or the hour or the day is indicative but not decisive . . . .

"What is controlling is whether the employer retained authority to direct and control the work, or had given it to the claimant."

Landowner's Right to "Lateral Support"

A CONNECTICUT reader asks whether or not an adjoining lot owner has a right to excavate his lot up to the lot line, without constructing a retaining wall to support the surface of the other lot. The following statement of law made by a standard legal authority is supported by a decision of the Connecticut Supreme Court of Errors, as well as by decisions of the highest courts of most of the other states:

"As a landowner has the entire dominion over the whole of his estate he has the undoubted right to excavate on his own land and close to the line of the adjoining owner; but in doing so he must prevent his neighbor's soil from falling, and if by depriving the adjoining land of its natural support he causes it to crumble, sink, or fall away either by reason of its own weight or by the action of the elements, he will be liable for all damages sustained, unless he supports the soil artificially, or unless the adjoining landowner has consented to the removal of soil from his land." 1 Corpus Juris, 1214.

Answering a further question from the same correspondent, it is settled law that the owner of a wall is bound to keep it in a reasonably good state of repair so that injury will not result to the adjoining owner through fall of the same. (See 1 Corpus Juris, 1211.) But it is only for such injury as may actually occur or be threatened that there is any right to legal redress.

The wall being wholly on the adjoining land, our correspondent cannot complain merely because it may be unsightly for want of repair. Action for damages sustained, or suit to compel repair of a condition threatening injury is a proper course of action.

MOST builders are acquainted with the general legal principles that their work involves. There are technicalities, however, that only a lawyer is expected to know. For this purpose, our Legal Advisor offers to help any reader who will tell him of his difficulties.

An Architect's Right to Compensation

CONTROVERSY arose as to whether or not an architect was entitled to pay for a set of building plans and specifications prepared but not used. The Virginia Supreme Court of Appeals decided (Revell vs. Ballard, 132 South Eastern Reporter, 322) that the evidence showed that defendant owners engaged plaintiff architect to prepare the plans and specifications, promising to pay him therefor if the construction contract was not awarded to him. Therefore, judgment was awarded in his favor; it appearing that after retaining the documents for considerable time the defendants secured new ones from another architect and repudiated any liability to plaintiff.

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TO THE BUSINESS MAN BUILDER



Buying Right means to the builder the difference between making Real Money and just breaking even.

No builder ever made a permanent success using cheap materials. But true Economy means getting the *finest possible materials at the best possible prices*. Getting all you can for your money—in Materials—in Advertising value—in Sales help—in Service.

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DES MOINES
1435 W. 29th St.
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Phone: Glendale 4780
KANSAS CITY
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Phone: Grand 5375
LOS ANGELES
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LOUISVILLE
115 So. 6th St.
Phone: City 6943
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410-412 Commerce St.
Phone: Lombard 8490
SAN FRANCISCO
1250 Folsom St.
Phone: Hemlock 1150
ST. LOUIS
2116 Locust St.
Phone: Central 8677
ST. PAUL
1930 St. Anthony Ave.
Phone: Midway 2822
SEATTLE
314 Bell St.
Phone: El-iot 5020

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1 A highly specialized line of the finest Interior Finishes possible to manufacture.

2 A long established nationally advertised name—"Johnson Finishes Used" has a world of meaning even to your women clients.

3 Service through 18 Factory Branches in all parts of the country.

4 ACTUAL WHOLESALE PRICES to the Builder on the regular advertised Johnson line. No special "painter's brand." No small "trade discount"—But real rock-bottom prices on the highest grade materials made.

Clip this coupon to your letter-head or business-card

S. C. JOHNSON & SON,
Dept. B. A. 11, Racine, Wis.

Please mail us immediately Wholesale Price List on Johnson's Interior Finishes. Also give details of your FREE offer to builders on the new Johnson Electric Floor Polisher.

Signed.....

(Address given on letter-head or card)

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PROMOTING GOOD DECORATING *at the* SESQUI-CENTENNIAL

(*Continued from page 99*)

strong pleasant color. The walls are painted deep ivory. All of the woodwork, including the breakfast benches and table, cupboards, closets and doors, are painted blue a shade or two darker than that used on the dining room walls. This blue tone is relieved by stripings of orange on mouldings and on the edges of shelves. Blue checked curtains, containing a hint of red orange, appear at the windows. Every housewife who visits the house exclaims upon seeing the kitchen. It is unusual, it is distinctive, and it is undeniably pleasant. With the wider information on psychological reactions to color that have come to hand during the past few years, people have come to believe that dull or uninteresting color schemes have a deadening effect upon those exposed to them.

Bedroom decoration affords a difficult problem for the decorator. The charming Colonial bedroom of Save the Surface Home do not have the anaemic appearance of so many bedrooms decorated with the popular pastel shades. The original wall treatment of the master bedroom was a pale green tint. The woodwork was ivory striped along the outer mouldings with lavendar gray. Bright cretonne curtains in a bolder pattern than is ordinarily seen in bedrooms add vivacity. In modifying the color scheme, according to the program laid out for Save the Surface Home, a sponge finish bringing out the lavendar aspect of the color scheme will be used. Another treatment will be a stencilled border.

The second bedroom, whose walls were tinted shell pink and whose ivory woodwork had a stripe of powder blue, will also have a sponge finish bringing out both the blue of the original color scheme and introducing bright yellow.

Not a single detail in the decoration of Save the Surface Home is beyond the average pocketbook. Unique effects are not incorporated at vast expense but only at the cost of a little thought and old fashioned "elbow grease." Save the Surface Home proves conclusively that the little house for the average family may enjoy the charm and distinction of fine, tasteful decoration.

Outline of Specifications for Save-the-Surface Home

Masonry Work—Foundation walls of concrete with concrete footings under all walls and piers as shown on plans. Bathroom floor bed of 3 inch cinder concrete.

Chimney of common brick laid in Portland cement mortar. Living room fireplace to be built in accordance with detail specifications.

Carpentry—Rough lumber to be of spruce or fir. Complete framing directions with working drawings and specifications. Sheathing of sugar cane insulating lumber applied directly to studding. Exterior finish of white pine siding.

All exterior millwork of white pine or clear cypress, interior trim throughout to be of clear white wood for paint. All exterior doors of white pine and interior doors of birch. Finished flooring throughout of oak. Sub flooring required under all finished floors with layer of deadening felt under finishing flooring.

Plastering and Lathing—Plastering to be two-coat work and the finishing coat of plaster of paris gauged with hydrated lime putty. Plaster to be applied directly to insulating lumber.

Metal Work—Gutters, leaders, downsprouts and flashing to be 16-ounce copper.

Roofing—Cover all roofs, inclosing rooms with one thickness of 7-8 inch spruce or hemlock shiplap or North Carolina roofers and one layer of building paper. Shingle all roofs with stained wood shingles.

Insulation—Throughout with sugar cane fiber building board used as sheathing and as plaster base.

Hardware—Owner will furnish all hardware, trimming for doors and windows, and for closets and casework. The contractor is to furnish a correct list of hardware and is to put it on in a care ful and workmanlike manner. Wrought hardware to be furnished by contractor.

Plumbing—Provide a complete plumbing system and fixtures ready for use, as shown on plans and in accordance with local regulations. Brass piping recommended, minimum for hot water supplies and for cold water lines wherever possible; genuine galvanized wrought iron pipe is the only other pipe material recommended.

Painting—Paint and varnish to be chosen by owner. Note: Save the Surface Home is to be redecorated inside and out several times in various types and styles to illustrate the effects that are possible through the use of paint, varnish und enamel.

Electrical Work—Wire the building complete for electric lights and service outlets indicated on the detail plans and according to standard symbols of the National Board of Fire Underwriters.

Heating—Steam or hot water specified, at option of owner. Thermostat heat regulator recommended. Hot water appliances on heating boiler for use when heating plant is in operation.

Legal Notice

Statement of the Ownership, Management, Circulation, Etc., Required by the Act of Congress of August 24, 1912.

Of Building Age and National Builder, published monthly at New York, N. Y., for October 1, 1926.

State of New York } ss.:
County of New York }

Before me, a Notary Public, in and for the State and County aforesaid, personally appeared Charles G. Peker, who, having been duly sworn according to law, deposes and says that he is the editor-in-Chief of the BUILDING AGE AND NATIONAL BUILDER, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the act of August 24, 1912, embodied in section 411, Postal Laws and Regulations to wit:

1. That the names and addresses of the publisher, editor, managing editor and business managers are:

Publisher—Building Age Publishing Corporation, 243 West 39th Street, New York.
Editor—Charles G. Peker, 243 West 39th Street, New York.
Managing Editor—Ernest McCullough, 243 West 39th Street, New York.
Business Manager—David Meyers, 243 West 39th Street, New York.

2. That the owner is:

Building Age Publishing Corporation 243 West 39th Street, New York.

That the stockholders owning or holding one per cent or more of the total amount of stock of Building Age Publishing Corporation are as follows:

B. A. & C. P. Holding Corporation, Times Building, New York.

That the stockholders owning or holding one per cent or more of the total stock of B. A. & C P. Holding Corporation are as follows:

Frank Meyers, 243 West 39th Street, New York City; David Meyers, 243 West 39th Street, New York City; W. H. Parsons, 243 West 39th Street, New York City; Walter A. Bardgett, 243 West 39th Street, New York City; M. & S. Meyers, Times Building, New York City; George Meyers, 1196 First Avenue, New York City; Michael Miller, 794 St. Nicholas Avenue, New York City; S. Cowen, 20 East 97th Street, New York City; David L. Short, Columbus Avenue and Hancock Street, Philadelphia, Pa.; G. Friedman, 627 Broadway, New York City; A. Cowen & Son, 34 West 25th Street, New York City; John J. Robbins, 317 West 93rd Street, New York City; Charles G. Peker, 243 West 39th Street, New York City.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages or other securities are:

Architectural and Building Press, 239 West 39th Street, New York.

Trade Press Publishing Corporation, 542 South Dearborn Street, Chicago.

Permanent Builder, Inc., 133 West Washington Street, Chicago.

4. That the two paragraphs next above, giving the names of the owners, stockholders and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company, but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

CHARLES G. PEKER.

Sworn to and subscribed before me this 26th day of October, 1926.

(Seal) CARL A. POWERS, Notary Public, Queens County. Certificate filed in New York County.

My commission expires March 30, 1927.

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ATKINS SILVER STEEL SAWS

A Fine Christmas Present

This is the finest and best Hand Saw the great Atkins factories can produce. It is made from Silver Steel, Atkins exclusive formula, therefore, it will cut faster, stay sharp longer, and outwear any other saw. It is two way taper ground by Atkins patented process and will go thru green or wet lumber with ease and precision.

Buy "Him" This Saw for Christmas



Ask For the Four Hundred and Four Hundred and One

The Number Four Hundred can be obtained from your hardware dealer in regular width skew back or in narrow ship pattern skew back. The Four Hundred and One is a straight back saw, furnished in regular width as well as in narrow ship pattern.

THE FINEST ON EARTH

If you want to obtain the best saws that money and skill can produce, buy the above saws fitted with Improved Perfection Handles of rosewood, piano finish, with nickel plated screws—prevents wrist strain.

Send us thirty-five cents in coin or stamps for high grade nail apron; mention this ad and ask for miniature hand saw watch charm, also Saw Sense, the book of facts. Address your letter to our Indianapolis factory.

E. C. ATKINS & COMPANY

ESTABLISHED 1857 THE SILVER STEEL SAW PEOPLE

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Home Office and Factory: **Indianapolis, Ind.**

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Metal Lath Beats Building Record

STARTING with the shipments of 1919 as 100%, there has been a practically uninterrupted increase with the curve of metal lath shipments for the first of 1925, approximating 425%.

Important factors in this achievement have been the promotional work of the Associated Metal Lath Mfrs., Inc., 123 W. Madison St., Chicago, and through the co-operation of its member companies. These results have been manifest in membership of important committees connected with the construction industry, through architectural and engineering service and through technical research to develop fire retardance.

The market for metal lath products has been widened through fostering the better plastering campaign in magazine advertising. Manufacturers have a substantial reserve of equipment to meet this increasing demand. In addition there are large stocks of metal lath always on hand.

Cinder-Concrete Block Manufacturers

FURTHER information has been received regarding the consolidation of 19 cinder-concrete block manufacturing companies into the National Building Units Corporation of Philadelphia. The consolidation of the plants was made possible largely through the efforts of Chas R. Flint, industrial engineer, whose list of consolidations includes the United States Rubber Co., The American Woolen Co., International Time Recording Co., American Chicle Co., and many others.

"The waste resulting from rivalry among manufacturers possessing the same fundamental interests is one of the most appalling conditions with which modern business must contend," said Mr. Flint. "Standardization, with its reduced cost of production and distribution has brought about a revolution in the cost figures of many industries. The cinder-concrete product manufacturers have taken a waste product, cinders, and have made it a commercial utility. It only remains to combine the economy of the raw material with economy of purchase and manufacture; this is the purpose of the consolidation."

The new corporation marks the coming together of the Straub and Bo Companies and the production of cinder-concrete building units made under Straub and Bo patents. The annual consumption of cinders in the manufacture is estimated at 750,000 tons and production of blocks totals 36,000,000.

"The keynote of our product is insulation," said Mr. Goodwin, Pres. "One of the most important aspects of insulation relates to the prevention of heat and cold penetration through the wall into the interior of the building.

"The time is coming when people will not think of their house walls as mere inanimate load-bearing mass of masonry that help to support a roof. They will regard their walls as active agents that can contribute to comfort and security."

New Salesmen

THE Bridgeport Brass Company announces the appointment of Mr. Hale J. Denny as salesman of the Bridgeport line of tubular plumbing supplies, Bridgeport-Keating Flush Valves and Plumrite Brass Pipe in the Chicago office territory which comprises ten Middle Western States. Mr. Denny, who will work under the direction of Mr. R. M. Hubler, Chicago district manager for the Bridgeport Brass Company, has been identified with the plumbing specialty game in Chicago five years.



Traveling Exhibit for Heating Company

THE same architect who designed York's famous "black and gold" building for the American Radiator Company was called upon to create a traveling motor bus for the exhibit of the company's products. Mr. Hood took as his inspiration the picturesque old English state coach of which the modern London bus is a decendant. The heavy brass luggage rail that was retained and the color scheme that was adopted are those which were so frequently seen along the English wayside in the 17th Century.

Three large panels of canary yellow are a distinct contrast to windows painted a bright cinnabar red, making the Arco bus an attractive, colorful spot in any scenery.

The Ideal trade mark the Clover leaf, replaces the English coat of arms. The interior of the bus is paneled in walnut with a black and white rubber tiled floor. This furnishes a setting for the display of the Ideal Type A Boiler. Arcola, Vecto, and Arco tank for hot water supply, and to attract the attention of the women visitors, two white porcelain enameled Corto radiators.

One of the most important functions of the Arco bus is the bringing of Ideal products to the personal attention of those buying and installing the products. Builders and architects are extremely busy men and ordinarily it is difficult to engage their attention. On the other hand, it takes but a few minutes to show and demonstrate the modern developments of heating equipment.

The Arco bus first visited the County Fairs in New York State and then started south. During a two day stay at Jacksonville the bus had 416 visitors, residents of 137 states. In three months almost 900,000 visitors inspected the Arco traveling exhibit and of this number 805 live prospects were turned over to local heating merchants.

Upon reaching a town, Mr. J. E. Noonan, in charge of the exhibit, immediately gets in touch with local merchants and decides with their help the best location of the bus. They were often instrumental in securing publicity in local newspapers and tieing-up with the display by devoting space in their advertisements calling attention to it. Merchants have all agreed that this type of sales promotion, coupled with national advertising, can do more to promote the sale of Ideal Boilers than any other way.

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Three houses on Seneca Parkway, Rochester, N. Y. H. C. Rupert, Builder; W. J. Kewin, Plumbing Contractor.

"A Great Help in Selling"

H C Rupert

MR. H. C. RUPERT, builder and realtor of Rochester, N.Y., who built the Seneca Parkway Houses shown above, writes as follows:

"I used Anaconda Brass Pipe for all three houses, as well as copper conductors, eaves and flashings.

"I expect to use the same materials on all good homes that I build, as it does not add as much to the cost as one might think, and is a great help in selling to those who understand the benefits derived—and I find more and more of this class every day."

THE AMERICAN BRASS COMPANY
GENERAL OFFICES: WATERBURY, CONNECTICUT
Offices and Agencies in Principal Cities
Canadian Mill: ANACONDA AMERICAN BRASS LTD., New Toronto, Ont.

ANACONDA COPPER
BRASS ANACONDA from mine to consumer BRONZE

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country. These prices are presented primarily to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices at which the average contractor can buy, but are quoted to show him the movements of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted. Followed in conjunction with the Review of Building Situation they will prove invaluable indexes of conditions.

NEW YORK PRICES

	Sept. 25	Oct. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring 25/32x2⅝" Face	$85.00	$85.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10'..	43.75	43.75
Timbers, Merchantable, 05 12x12', 10' to 20'.....	53.50	53.50
B. & Btr. Partitions, ⅝x3¼ in.....	58.00	58.00
B. & Btr. Ceiling, ½x3¼ in.....	44.00	44.00
B. and Better Finish, 1x4 in.....	68.50	68.50
No. 1 Common Boards, 1x8.....	50.00	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x3½".....	$62.00	$62.00
Roofers, 13/16x6 in.....	33.00	33.50
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3 in...	$67.00	$68.00
No. 1 Clear V. G. Flooring, 1x4 in.....	66.00	67.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	40.50	41.50
No. 2 Clear and Better Drop Siding, 1x6 in.....	52.00	53.00
No. 2 Clear and Better V. G. Stepping.....	88.75	87.75
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.16	$6.23
Washington Perfection Shingles, per M.....	6.63	6.06
Clear Bevel Siding, ½x6 in.....	45.00	44.00
CANADIAN SPRUCE—		
No. 1 Lath, 1½ in.....	$7.50	$7.25
Dimensions 2x4, 10' to 16'.....	36.50	36.50
HARDWOOD FLOORING—		
Clear Quartered White Oak, 13/16x2¼ in.....	$142.50	$142.50
Clear Plain White Oak, 13/16x2¼ in.....	97.50	97.50
Clear Plain Red Oak, 13/16x2¼ in.....	90.00	90.00
Clear Maple, 25/32x2¼ in.....	94.00	96.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M, f. o. b. job.....	$18.70	$18.70
FACE BRICK—		
Tapestry, Red (delivered).....	$45.00	$43.00
Tapestry, Gray	43.00	43.00
Tapestry, Golden	42.00	42.00
Caledonian Grey (delivered)	45.00	42.00
Smooth Grey (delivered)	45.00	42.50
Fiske End-Cuts	35.00	35.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.55
STRUCTURAL STEEL—		
Steel Bars per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.	$3.25	$3.25
1½ in.	3.25	3.25
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots over 1,000 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd., delivered	$0.19	$0.19
2.8 lb.—24 gauge, light, price per 100 sq. yd., del.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per sq. yd., deliv.	0.31	0.31
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.60	$0.60
Masons, per 50 lb. bag.....	0.50	0.50
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.25	$2.25
¾ in. Gravel (per cubic square).....	3.25	3.25
1½ in. Gravel (per cubic yard).....	3.25	3.25
SHINGLES—		
Asphalt, Single (per square).....	$6.00	$6.00
Asphalt Strip (per square).....	6.50	6.50
STAINED WOOD SHINGLES—		
10 in.Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	10.70	10.70
18 in. Perfection (per square, delivered).....	11.70	11.70
24 in. Royal (per square, delivered).....	11.70	11.70
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.13	$0.13
6 in. (cents per foot).....	0.19	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per square at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½x8½ in., per foot.....	$0.34	$0.34
8½x13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8x12x12 in., heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel	$0.60	$0.60
PLASTER BOARD—		
32x36x⅝ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton	$45.00	$45.00

CHICAGO PRICES

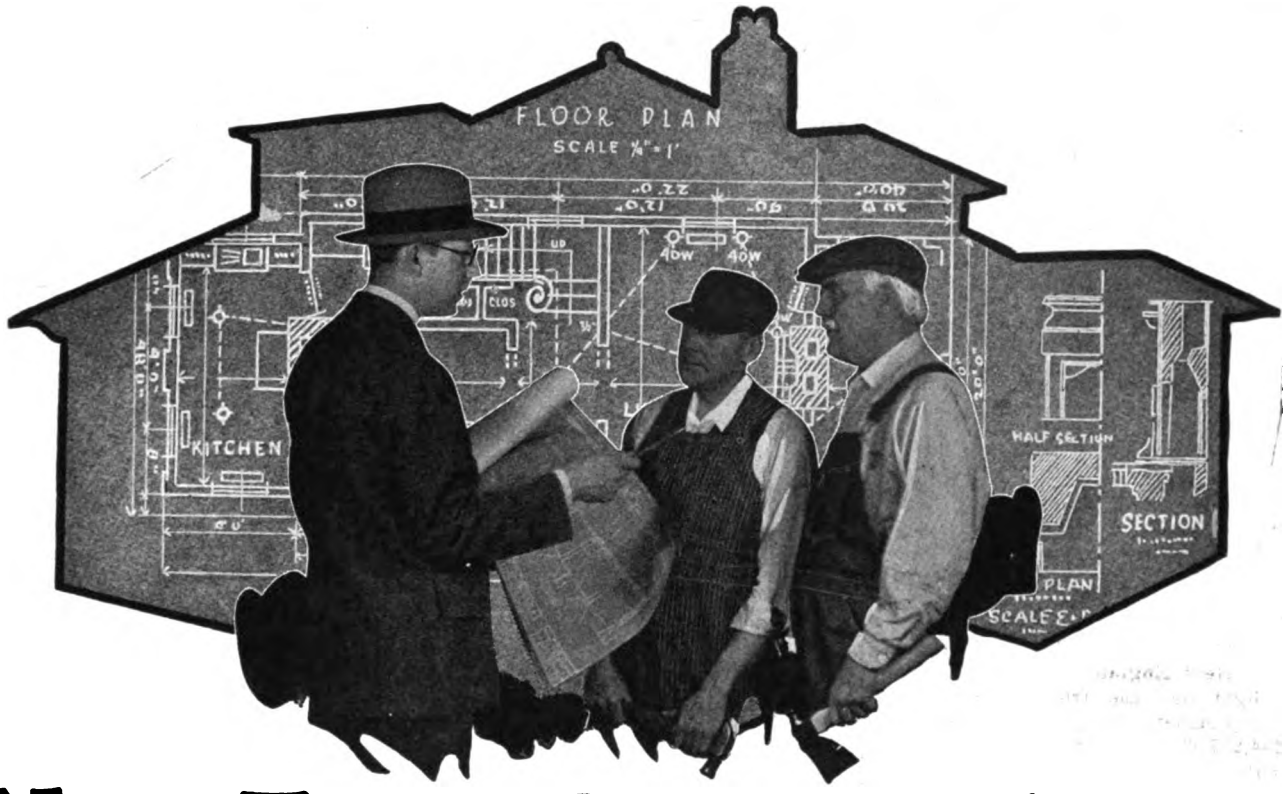
YELLOW PINE—		
Boards, 1x8, No. 1 Common.....	$42.00	$44.00
Ceiling, ⅝x4, B. and Better.....	44.00	42.00
Dimensions No. 1, 2x4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1x6, B. and Better.....	53.00	53.00
Finish, 1x4, B. and Better.....	62.00	62.00
Flooring, B. and Better, E. G., 1x4.....	77.00	79.00
Lath, 4 ft., No. 1.....	6.50	6.50
Timbers, Long Leaf No. 1, 10-20 ft., 6x12 to 12x12	56.00	56.00
HARDWOODS—		
Maple Flooring, 13/16x2¼ in., clear.....	$86.00	$86.00
Oak Flooring, ⅝x2, Cl. P, White.....	60.00	67.00
Oak Flooring, 13/16x2¼, Cl. Pl., White.....	96.00	95.00
REDWOOD—		
Bevel Siding, S1S1E, 8-20', ½x4, clear.....	$27.25	$30.00
Finish, S2S or S4S, 1x6, 8-20', clear.....	72.50	72.50
WESTERN RED CEDAR—		
Bevel Siding, ½x4, clear.....	$31.00	$30.00
Shingles, extra clear, 16 in.....	3.91	3.96
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.10	$2.10
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Common, 1x4.....	$41.25	$41.25
Dimensions, No. 1, S1S-E, Short Leaf, 2x4 in., 12-14'	29.00	29.00
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10-12',.....	85.00	85.00
Flooring, B. & Btr., E. G., 1x3.....	73.00	73.00
Flooring, B. & Btr., F. G., 1x3.....	57.00	57.00
Lath, 4 ft. No. 1.....	6.13	6.00
Timbers, No. 1, rough, short leaf, 6x12 to 12x12 in., 10 to 20 ft.....	53.75	53.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1x6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 4 to 20 ft.....	27.25	27.25
8 in. Colonial, ⅝ in.....	45.50	45.50
8 in. Bungalow, ¾ in.....	56.75	56.75
HARDWOODS—		
Oak Flooring, 3/8x1½ & 2 in., clear, Qtr. White.	$102.00	$97.00
Maple Flooring, 13/16x2¼ in., clear.....	86.00	85.00
RED CEDAR—		
Siding, ½x6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	3.91	3.96
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.15	$3.15

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FREE How to Read Blue Prints



New Easy Practical Way

That Has Doubled Pay in 2 or 3 Months!

Thousands of Men in the Building Trades Have Discovered an Altogether New Way to Double and Triple Their Incomes! Surprising, Yes—but True! Almost Over Nigbt They Have Stepped Into Interesting, Big-pay Jobs—Become Foremen and Superintendents—or Are Making Big Money in Business for Themselves. The Same Wonderful Opportunity is Now Offered You. Don't Send One Penny. Just Mail the Coupon for Full Set of Valuable Blue-print Plans, Big Free Book and Complete Details.

YOU men who work with your tools in the building trades make good money. But you don't get one penny more than you're entitled to. Every boss on the job—every foreman, every superintendent—is making plenty more than just your wage scale—you can figure pretty well for yourself what a lot of real money the contractor and the builder clean up. Why do these men get more money for their work than you do? Why do they clean up $6,000 to $15,000 a year or more? It's simply because they're trained in the "head-work" side of Building and Contracting work. They can read Blue Print Plans. They know how to lay out and run jobs.

READ!

"Since starting the Builder's Course I have been raised to Superintendent and my pay raised 100%." P. F. BLAIR, Okla.

"I owe a lot of credit to your course. Am now listed as a Brick Contractor and made about $3,800 clear money this summer."

Get This Big-Money Training

Many men think the only way they can get practical "head-work" training is on the job. Perhaps that was true once. But thousands of Chicago Tech Graduates have proved that the idea is all wrong now. You know yourself that a man can spend 5 or 10 years working with his tools and never get a real chance to learn the things he must know, if he is ever to get into the big-pay class. Anyhow, it's a long, hard, slow process—on the job.

But it's all different the new Chicago Tech Builders' Course way—amazingly different! It's quick, easy, certain. Right at home, you get real Blue Prints used on actual jobs to examine and keep for reference. In language you can understand, as plain as A-B-C, everything is told you and worked out for you in concise, practical home lessons—no text books to study—you are taken by experts right through every step of Plan Reading, Estimating and Superintendence so simply and easily it is just like play. You don't need even a grade school education to understand every word and absorb every fact.

Consider what this quick, practical Chicago Tech training has done for others. Woodside, in less than three months, rises from journeyman carpenter to foreman, then makes big money in contracting business for himself. In a few months McAvoy goes from bricklayer on the wall to foreman in charge at a big increase in pay. Marchand says, "Ten days after completing course my pay was raised 100%." Hundreds—yes, thousands—of others say the same, Chicago Tech has helped them to bigger jobs or a business of their own. It is ready right now to help you.

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Review of Building Situation

CONTRACTS for September amounted to $562,371,400 indicating that the latter part of 1926 is holding up its end of the annual construction record. This total, reported by F. W. Dodge Corp., fell below last September by only 1%, while the decrease from August, 1926 was 6%. The 37 states reporting include about 91% of the country's volume. Residential work commanded 40% with public works and commercial even at 17%.

For the first nine months the total was $4,809,779,800 8% over the corresponding period of 1925. Contemplated new work for September ran 9% over the previous month while it was a like proportion below a year ago.

New York District

Contracts were let to the extent of $146,905,500, a gain of 13% over September last and 4% below August, 1926. Over half of the total went for residential. New work showed a gain over both the previous month and September last.

A substantial increase in the first nine months total was represented in the $1,306,975,500 in contracts reported.

New England District

A slight decrease from August and from September, 1925 was reported in the $44,279,900, 36% of which went for residential. The contemplated work ran 8% over the previous month and fell below September last.

Mid Atlantic District

This district's volume exceeded August by 1% and last September by almost 30%. More substantial increases were represented in the total for contemplated construction. This was 29% in excess of August and 1% over September, 1925.

For the first nine months contracts were let to an extent of $488,787,600, 15% over the same period 1925.

Pittsburgh District

September total was 2% in advance of August and 1% less than last September. Of the total 29% was attributed to residential and 28% to public works. Practically the same amount as August was reported in the total for new projects contemplated. The first nine months total reached practically $600,000,000.

Reporting Districts

New England District: New England States.
New York District: New York State and Northern New Jersey.
Mid-Atlantic District: Eastern Pa., Southern N. J., Md., Del., D. of C., Va.
Pittsburgh, Dist.: Western Pa., W. Va., Ohio, Ky.
Middle West District: Ill., Ind., Iowa, Wis., Mich., Mo., Kan., Neb., Okla.
North West District: Minn., N. and S. Dak., and Northern Mich.
South Atlantic District: N. and S. Car., Ga., Fla., Ala., Miss., Tenn., Ark., and La.
Gulf District: Texas.

Middle West District

Construction was started to practically the same extent as September, 1925. A decline of 18% from August was reported. Contemplated projects exceeded August by 7% and fell only 1% below September last.

A gain of 8% was represented in the $1,216,523,500 total for the first nine months.

Northwest District

Contract total exceeded August by 6% and declined 4% from last September Residential, 29%; public works 23; hospital etc. 18%. Contemplated work was 8% in advance of the previous month and 10% over last September.

Total for the first nine months gained 8% over the corresponding period of 1925.

South Atlantic District

A gain of 23% over August and a decline of 33% from September last were reported. Of the total, residential commanded 32%.

The first nine months total, $590,559,900, exceeded the last year period by 2%.

Gulf District

New building and engineering work last month decreased as compared to both August and September last. Public works led the total with 42% while residential took 31%.

Contracts for the first nine months totaled $185,449,300, 27% over the January—September period 1925.

Record of September, 1926, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$9,046,500	$28,120,500	$6,506,300	$9,752,200	$32,642,500	$660,800	$8,622,900	$2,026,600	$97,378,300
Educational Buildings..	4,797,000	4,231,900	4,677,800	3,328,000	11,894,600	414,000	3,609,900	1,578,500	34,531,600
Hospitals, etc.	486,800	2,556,500	3,283,200	1,051,000	1,486,000	1,622,000	613,000	142,000	11,240,500
Industrial Buildings ...	3,791,400	6,757,400	8,862,500	11,007,300	12,200,600	1,233,800	4,982,800	276,900	49,112,700
Military and Naval ...	88,000	504,400	.....	.....	.....	.....	15,000	.....	607,400
Public Buildings	923,000	896,000	130,200	82,200	1,584,500	157,700	560,300	255,900	4,589,800
Public Works	4,847,800	14,395,200	9,490,700	18,282,100	25,600,500	2,101,600	15,933,800	7,515,100	98,166,800
Religious & Memorial..	2,223,600	1,887,400	1,142,800	1,705,900	3,575,100	42,000	2,400,800	231,400	13,209,000
Residential Buildings .	16,004,800	79,266,100	26,687,000	18,636,100	58,521,500	2,661,200	18,133,600	5,606,000	225,516,300
Social & Recreational.	2,071,000	8,290,100	1,501,700	1,270,700	12,469,400	226,200	1,978,500	211,400	28,019,000
Total	$44,279,900	$146,905,500	$62,282,200	$65,115,500	$159,974,700	$9,119,300	$56,850,500	$17,843,800	$562,371,400

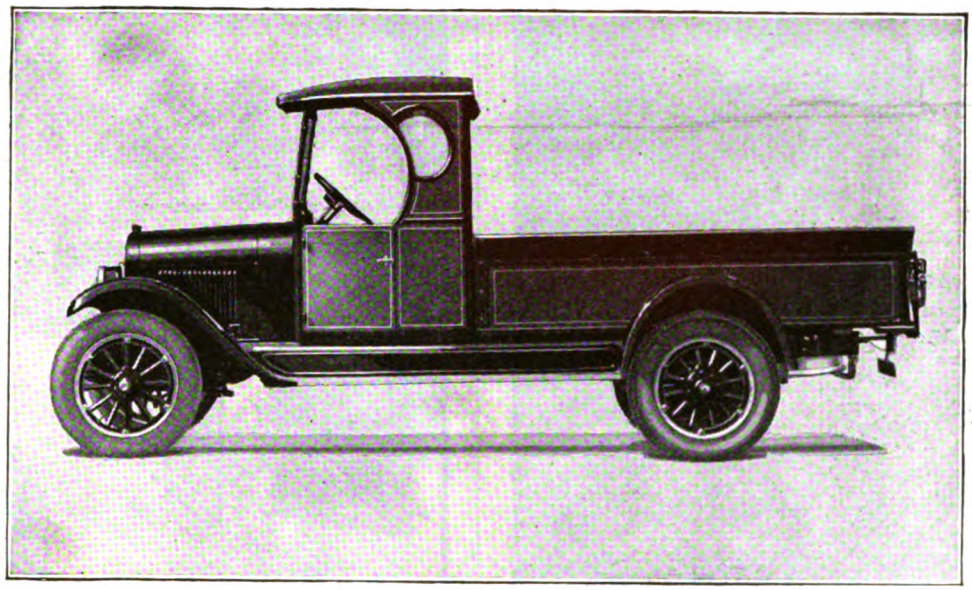
Building Projects Contemplated, September, 1926

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$5,155,000	$36,226,500	$5,081,300	$5,292,000	$20,589,000	$826,300	$10,427,700	$2,019,800	$85,617,600
Educational Buildings.	1,158,500	5,951,700	2,853,200	3,737,600	5,288,700	251,000	3,708,900	3,500,000	26,449,600
Hospitals, etc.	260,000	4,961,000	1,686,000	499,000	731,000	130,000	811,000	1,262,000	10,340,000
Industrial Buildings ..	4,577,400	5,721,400	7,856,000	8,393,300	12,705,500	1,168,800	19,642,800	519,400	60,584,600
Military and Naval ...	68,000	60,000	.....	.....	.....	.....	420,000	.....	548,000
Public Buildings	80,500	3,121,600	1,030,000	379,200	1,484,300	275,000	1,591,500	453,700	8,415,800
Public Works	2,999,800	22,372,600	11,125,100	12,278,600	32,309,500	6,088,000	18,344,300	2,721,800	108,239,700
Religious & Memorial.	484,000	4,134,000	1,516,500	1,363,000	4,284,800	292,000	1,205,600	343,000	13,622,900
Residential Buildings..	16,168,500	86,504,900	38,830,800	22,107,300	83,552,600	2,964,700	19,511,700	7,713,700	277,354,200
Social & Recreational.	2,737,600	4,481,200	2,878,700	1,801,000	12,155,000	216,200	5,334,500	508,900	30,113,100
Total	$33,689,300	$173,534,900	$72,857,600	$55,851,000	$173,100,400	$12,212,000	$80,998,000	$19,042,300	$621,285,500

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for Economical Transportation

CHEVROLET



Just look at a Chevrolet Truck!

If you want to learn what an amazing measure of truck value you are offered at Chevrolet's sensationally low prices, just *look* at a Chevrolet Truck! Look at the husky rear axle, the sturdily-braced six-inch channel steel frame, the heavy-leaved, semi-elliptic springs and oversize brakes! Notice the big motor, the semi-reversible steering gear and the 3-speed, sliding gear transmission! Check these Chevrolet-built Trucks from front to rear! Compare them in any way you want with any comparable priced truck you want—and you will quickly realize why thousands of truck buyers all over America are enthusiastically turning to Chevrolet!

CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN
Division of General Motors Corporation

Now reduced to:

½-Ton Truck *Chassis Only* $375 1-Ton Truck *Chassis Only* $495

All Prices f. o. b. Flint, Michigan

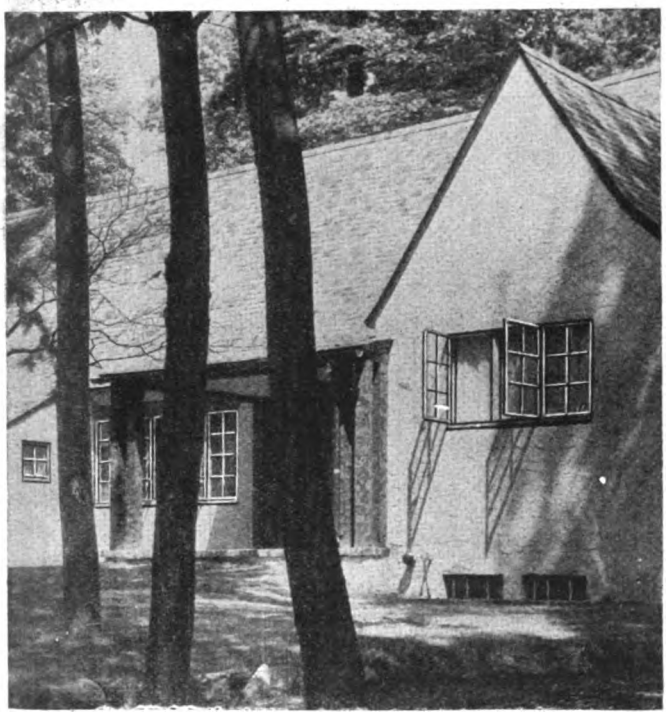
World's Lowest Priced Gear-shift Trucks

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TRUSCON STEEL COMPANY

YOUNGSTOWN OHIO ~ WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES

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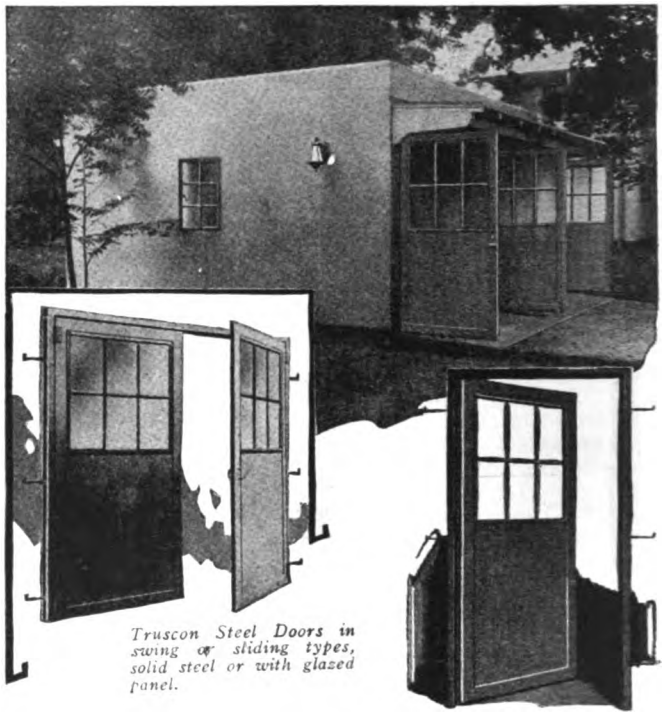


Practical Steel Casements Beautiful and Economical

Truscon Steel Casements will better satisfy the owners for whom you build homes. These Casements are durable, rust-proof, fire-safe, fine appearing and have all the practical advantages of easy operation, complete weather-tightness and ease of installation in masonry or in wooden frames. With all their superiorities Truscon New Type Casements are low in cost.

Write for illustrated literature.

TRUSCON COPPER STEEL STANDARD CASEMENTS



Truscon Steel Doors in swing or sliding types, solid steel or with glazed panel.

Steel Doors for Added Safety

Your building needs the additional fire protection that Truscon Steel Doors provide. Use these doors on garages, at alley, rear, and service entrances, in fire room partitions and wherever great serviceability and assured safety are demanded. Standard sizes to meet your needs. Easily installed —always satisfactory.

Ask for free catalog.

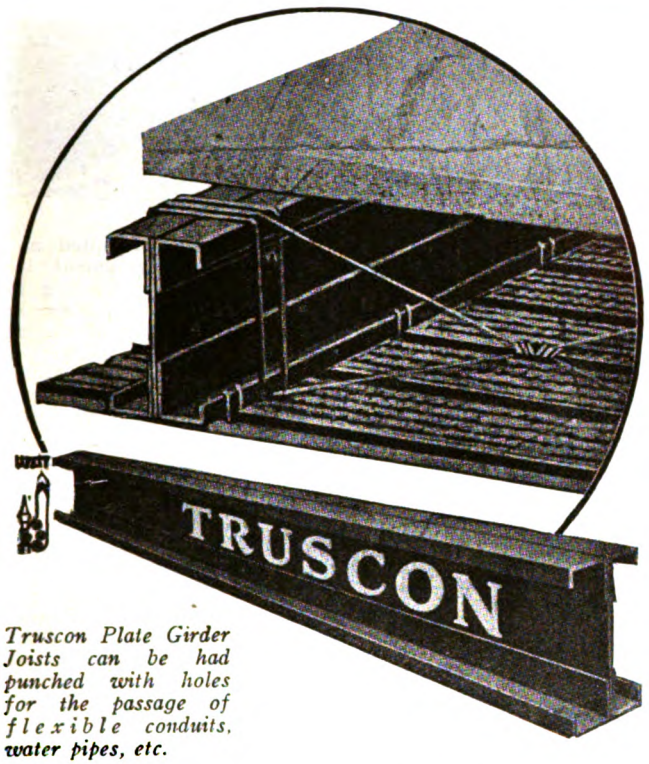
TRUSCON STANDARD STEEL DOORS

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TRUSCON STEEL COMPANY

YOUNGSTOWN OHIO ~ WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES

Foreign Trade Division, New York The Truscon Laboratories, Detroit, Mich The Trussed Concrete Steel Company of Canada, Ltd., Walkerville, Ont.



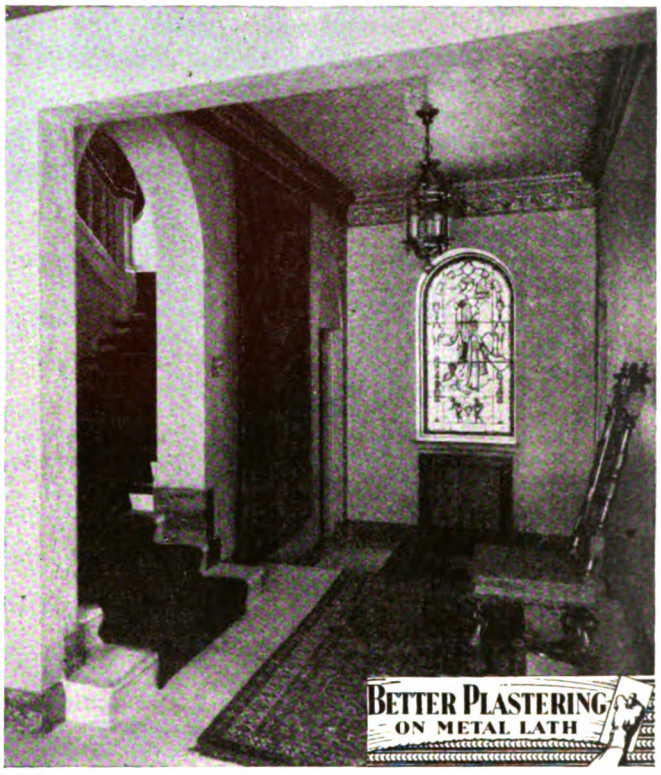
Truscon Plate Girder Joists can be had punched with holes for the passage of flexible conduits, water pipes, etc.

Plate Girder Joist Floor Construction

Fire safety and permanence at low cost. Soundproof floors. Minimum dead weight. Swift erection in any season. Lighter supporting members. Simple construction. Cold weather building. Easy inspection. Elimination of form work. Minimum field labor. Erection of any number of floors at once. Easy installation of plumbing and wiring.

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TRUSCON STEEL JOISTS



Member of the National Council for Better Plastering.

For Permanent and Beautiful Plaster Surfaces

Truscon 1-A Hy-Rib Metal Lath has consistently demonstrated its outstanding superiority. Not only is it quickly applied and quickly and easily plastered with utmost economy of plaster materials—but it assures a fire-safe, crackless job that reflects lasting credit on you. Truscon has designed this special lath to help you meet the demand for permanent, crack-proof walls and ceilings.

Further information free on request.

TRUSCON 1-A HY-RIB METAL LATH

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USEFUL CATALOGS



THIS department is a service to our readers and they are invited to make frequent use of it. Go through your catalog file and decide just what is needed to bring it up to date. Monthly, new catalogs are reviewed here.

Winter Construction is possible today. "Analyzing the Success of Winter Construction" is the name of an 8 page booklet giving practical suggestions. published by the Portland Cement Association, Chicago, Ill. How Much Does Weather Affect Construction? — The Economics of Winter Building—Eliminating Seasonal Depressions—How Contractors Depose King Winter—are the interesting sub-heads to be found in the booklet. The last page carries a Bibliography on Special Seasonal Operation in the Building Industries. This folder, and another, "Concreting in Cold Weather" should be of interest to every builder operating in inclement sections of the country.

Hardware designed for lasting and practical installations must be the result of many years of practical tests. Catalog No. 95 of the Allith-Prouty Co., Danville, Ill., is comprehensive in presenting the complete line of hardware for every day use.

Flag Poles with the steel firmly set in concrete foundations will last indefinitely. A complete line of steel tubular poles and flag pole foundations is illustrated and described in the new catalog of the Pole and Tube Works, Inc., Ave. D and Murray St., Newark, N. J.

Ventilating Units are just as essential in the home as in factories, laundries, theatres, etc. A unique installation, the Charavay ventilator, has a powerful and positive suction and when placed in the attic or upstairs window of a dwelling it creates a noticeable movement of air throughout the entire house. By running the ventilator 15 or 20 minutes before retiring the house can be entirely cooled on the warmest night. The Hartzell Propeller Co., Piqua, Ohio, make these suggestions in a new four page folder.

Vitreous Marble, distinguished under the name Sani Onyx, is now available in six textures, flame glaze, semi-matte, matte, tapestry, polychrome and embossed. These give the basic colors, blue, green, ivory, grey, white and black and from these many combinations are possible. For example, blue with either white, grey or ivory for either bathroom, kitchen, etc. Sani Onyx is in every respect an up-to-date material, one to meet the increasing demands for buildings of distinction and beauty and charm. Slabs or sheets of the product are easily and quickly cut to inside measurements by experienced workmen from the company's local construction office. They are installed according to specifications. This data is given in a 32-page book, in colors, published by the Marietta Mfg. Co., Indianapolis, Ind.

Electric Ranges are the result of the popular trend toward efficient and convenient cooking apparatus. Standard Electric ranges are obtainable from the smallest unit to large installations for hotels and clubs. An illustrated 32-page catalog (No. 15) presents various phases of electrical cooking. Publishers are the Standard Electric Stove Co., Toledo, Ohio.

Woodworking Machinery may be used to replace practically all hand work with rapid and accurate machine cuts, with an accompanying saving in time and labor costs. Two new units—the Detroit and Detroit Junior have been developed by the Master Woodworker Manufacturing Co., 612 Brush St., Detroit, Mich. These are not hand saw rigs but complete working shops in themselves. Illustrations and specifications are supplied in a new 4-page folder.

Gas-Fuel Steam Radiators of new and improved types are clean, convenient and economical. This thought is given in several new folders of the Buffalo Gas Radiator Corp., North Tonawanda, N. Y. The company furnishes individual unit systems providing against overheating and fuel waste. Steam heat is available by simply turning a valve and lighting a burner. The gas supply is automatically controlled by the steam pressure in the radiator.

Sash Cord may be of several different grades as every builder knows. In contrast to cheap cord, made of coarse, uneven yarn and roughly braided, Samson Spot Cord, on the market since 1893, is made of uniform yarn spun in the company's own mill. This is firmly and evenly braided and smoothly finished. It is easily distinguished by the trade mark of the Samson Cordage Works, Boston, Mass.—Samson Colored Spots. A new folder is available.

Needle Showers are accepted as the finest in bath room equipment today. Catalog C of the Kenney Cutting Products Corp., 507 Fifth Ave., New York, offers a complete summary of the many types of distinctive body showers now offered by that company. The Congress Concealed Model, the Congress Exposed Model, the De Luxe Tub and Wall Model, as well as portable models are included in the survey. These are all designed to be used either with or without curtains.

Lumber in its various forms represents a most important element in building work. Pictorial information dealing with the "Home in the Making" takes up pine from the forest to the finished home. The literature is published by the Southern Pine Assn., New Orleans, La.

Stained Shingles may be laid to get excellent variegated color effects. "Beautiful Roofs," A. I. A. File No. 19d1, contains many illustrations in color showing roofs as they look when in actual use. The 16-page catalog includes an offer of color samples. Weatherbest Stained Shingle Co., N. Tonawanda, N. Y., has evidently put a great deal of effort in the preparation of this booklet.

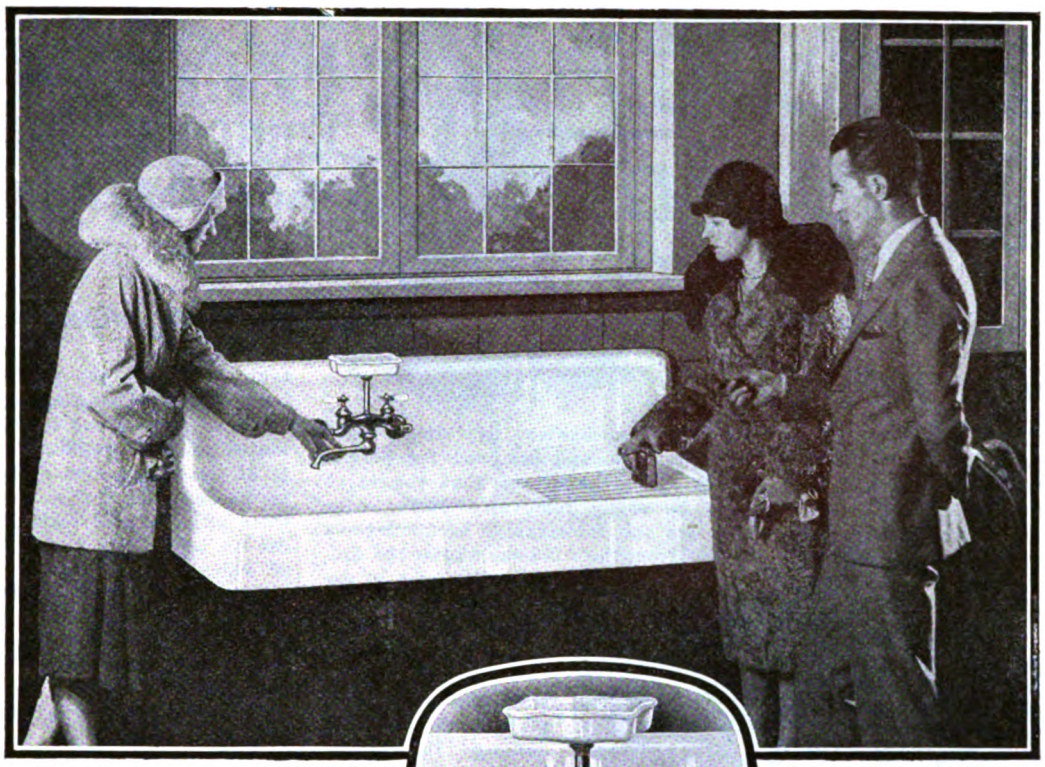
Oak Flooring, in the minds of most prospects, is a symbol of a well built and well finished home. Speculative builders will be interested in new information on the size and grade of Perfection Brand Oak Flooring being sent out by the Arkansas Oak Flooring Co., Pine Bluff, Ark.

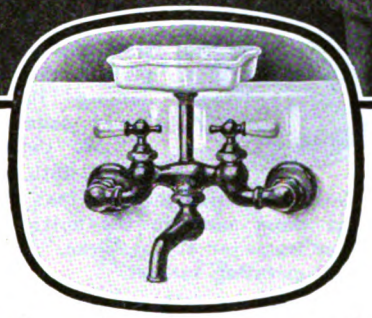
Store Fronts that make the most of display space will appeal to builder and merchant alike. A patented, indirect, key-set construction, with rigid gutter, is described in a book, "Getting People In," issued by the Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.

Steam Coil Heaters have proved their efficiency and capacity to heat industrial buildings in the most inclement weather. A list of factories, mills, industrial buildings, that are equipped with Skinner Brothers Steam coil heaters is included in literature of the manufacturers, Skinner Bros. Mfg. Co., Inc., 1426 S. Vandeventer Avenue, St. Louis, Mo.

Door Catches should latch and unlatch with a minimum amount of effort. A type that is simple, requiring no boring of holes or mortising is now offered to builders by H. A. Swenson Co., 155 West 43rd St., Los Angeles, Calif.

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Home Buyers Think of Their Hands

It is good business to foresee the effect of "Standard" Faucets when women are considering work to be done in kitchens and laundries of houses you have for sale.

"Standard" Swinging Spout Faucets have a big appeal because they think of women's hands—and you may be sure women do that, too. These faucets have the knack of being where they're wanted. Out of the way when not needed. Swinging about with cold water, hot water, or water nicely "tempered." They add such a lot in appearance—brightly nickeled, with white china handles and china soap-dish that lifts off for easy cleaning.

Your customers want Faucets as good as their Sinks. They want Showers as good as their Baths. They want Brass Fittings everywhere to match the quality of the Enameled Ware and Vitreous China. That means they want "Standard" plumbing fixtures throughout.

Write for the "Standard" Catalogue.

Standard Sanitary Mfg. Co.
PITTSBURGH



"Standard"
PLUMBING FIXTURES

Make sure "Standard" Brass goes into your specifications, which "Standard" Promotion Men will gladly prepare like this, for bathroom, kitchen and laundry installations.

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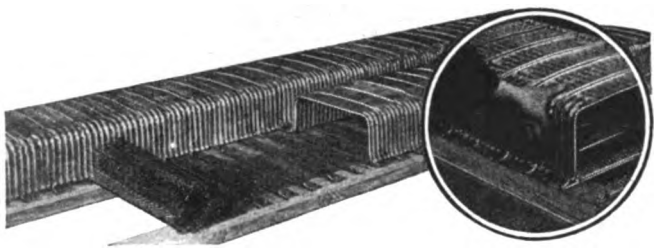
WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

For Concrete Floor Construction

COMBINING the utility of metal lath and steel forms for ceiling and floor construction, a new product has been developed offering an integral installation. One unit, known as Locktyle, includes



the features of metal lath and is designed for quick erection. It is furnished in rolls 100 ft. long and 2 ft. wide with ribs running the 2 ft. width. Into these ribs, at the proper distance from each end, a prong is punched upward. As Locktyle lath is rolled out on the form, ribs and prongs are on the upper side. Then a second unit, ribbed steel Floretyle has flanges that hook into the prongs of the lath.

The features include speed of erection, since the metal lath is almost instantly attached to the floor forms. Furthermore, it insures accuracy in spacing on absolutely true and straight concrete joist.

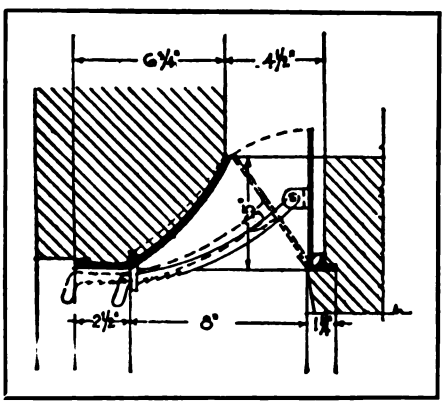
Engineers for the manufacturers, Truscon Steel Company, Youngstown, Ohio, point out that in this construction the ribs of lath serve as ties for the tyle arch—an important feature during the pouring of concrete. Prongs on the lath rib provide a definite anchorage for the ceiling lath, which due to its rolled form is free from irregularities.

Improved Throat and Damper Unit

AN iron throat relieves a mason of the most critical part of the fireplace and the front flange acts as a support of the brick and masonry above. The damper plate allows the flue to be shut off when not in use or to cut down the opening when draft is too great.

Throat must be so designed that smoke is drawn up by the flue above with little friction. The easier the path for the rising smoke the less chance for it to enter the room. In selecting the damper care must be taken to be sure that the operating mechanism is simple and strongly made and designed for permanence. It is important that the valve plate be easily removable during construction and for cleaning accumulations of soot from the wind-shelf after the fireplace has been in use for some time.

These suggestions are made in connection with the installation of the improved throat and damper illustration. The manufacturers, H. W. Covert Co., 137 E. 46th St., New York, emphasize the fact that there are but three parts in the unit; the cast iron frame or throat piece, valve plate and operating ratchet.



Frame is strong and acts as a lintel to support the arch. Series E is illustrated. This type is 10 in. deep (inside measurement) and is for fireplaces 20 in. deep or under. Series D, 8 in. deep (inside measurement) is for fireplaces 18 in. deep or under. For fireplaces deeper than 20 in. manufacturers recommend a third type of throat and damper.

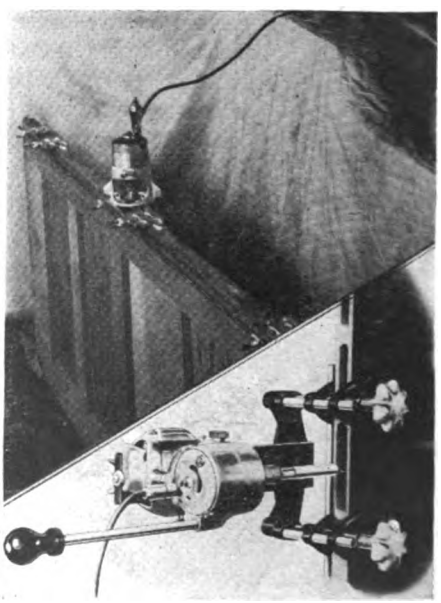
Adjustable Templet and Lock Mortiser

TWO units of equipment, one an adjustable templet for hinge butt routing on doors and jambs and another a door lock mortiser are being introduced by R. L. Carter Co., 1292 Canal St., Phoenix, N. Y. The first allows for a depth and routing by an adjustment of the router motor in router base. This is shown in the upper illustration. The router rides on top of templet with a templet guide riding against sides.

All measuring and laying out is eliminated and it is estimated that less than ¼ of the time necessary by old methods is needed with this new equipment. Once adjusted the templet is ready for use on both doors and jambs regardless of which way the door swings.

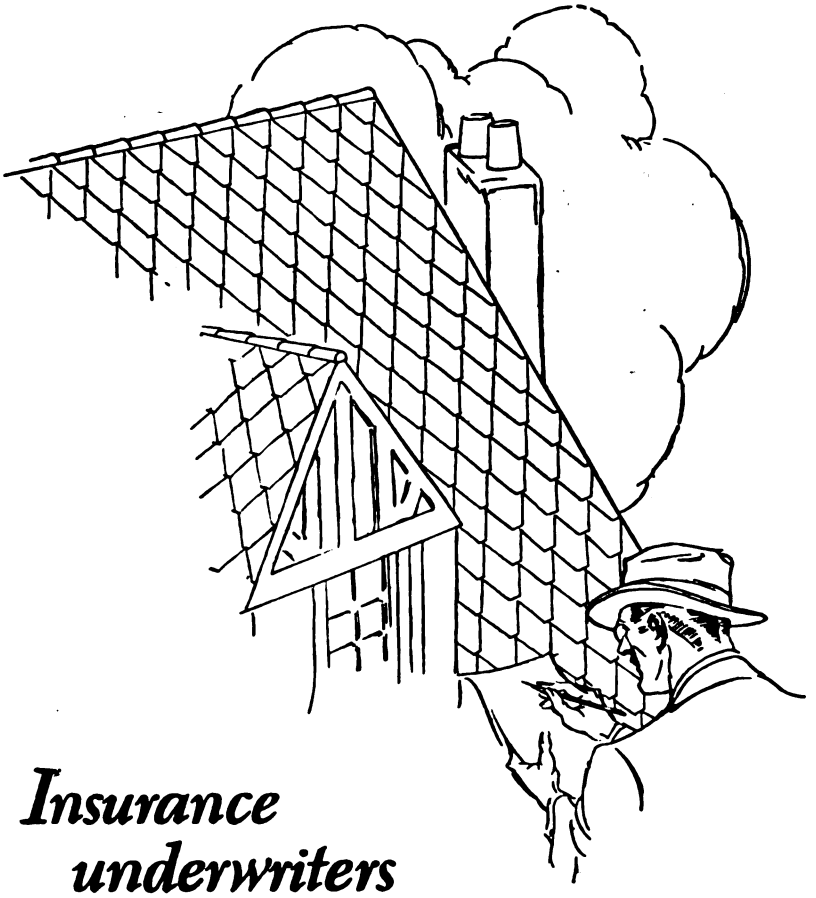
There is slight radius left in the corner that is quickly removed with a chisel. Specifications include three sections of aluminum adjustably mounted to a take down Bessemer Rod. Templet automatically gives exactly 1/16 in. clearance between top of door and frame and where solid stops are used, exactly 1/16 in. between stop and face of door.

In the case of the door lock mortiser (shown in lower half of illustration) motor feeds automatically by merely moving handle up and down. The motor carriage is fastened to ways by a 3-point adjustable bearing. Width of mortise is determined by the diameter of the gutter used. Clamps are self-centering and very thorough once adjusted there is no need for further measuring for any doors of the same mortise. For attachment the manufacturers estimate 40 seconds for cutting the average mortise. Cutting for face plate of lock is done with router that is included in door set. Specifications include a ¼ h.p. motor and mortiser complete with any two gutters, height adjusting rod, 8 ft. cord and connector and 50 ft. extension cord. Weight complete without cord 22¾ lbs.



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JOHNS-MANVILLE
Asbestos Shingles



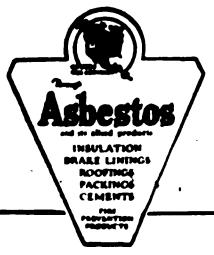
Insurance underwriters lower rates for FIRESAFE roofs

THE insurance underwriter no longer calmly watches the public build as they please. He actively advocates fire-safe roofs and offers inducements in lower rates for safe roofing construction.

His warnings added to those of other fire prevention authorities are having their effect. The public is demanding more asbestos roofings than ever.

Good thing to sell what the public wants, isn't it?

JOHNS-MANVILLE Inc., 292 Madison Ave., at 41st St., N.Y.C.
Branches in all large cities
For Canada: CANADIAN JOHNS-MANVILLE CO., Ltd., Toronto



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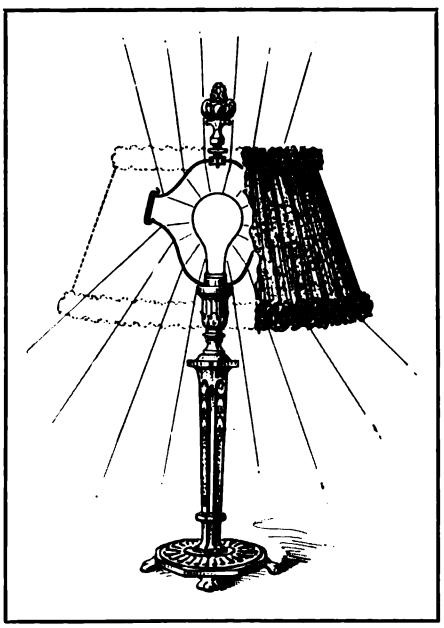
What's New in Materials and Equipment

Table Lamp Provides General Illumination

A LAMP with a special prismatic globe is being introduced for home use. It diffuses the light rays, sending the right proportion upward for the illumination of the room and downward for reading light. If the builder is considering the use of such a unit it is best that he decide before the wiring contract is let. For in many cases the Gloria lamp, as it is called, provides sufficient general illumination in a small room to eliminate the necessity for overhead fixtures or side lights.

It is recommended, of course, that outlets be provided for the future installation of such fixtures, but the Gloria installed in the home for sale would carry with it an important economy feature from the standpoint of the home buyer.

The lamp in itself is an attractive piece of equipment. It has a heavy cast metal base and is finished in gold and black to harmonize with practically any home furnishings. A silk shade, suitably trimmed, conceals the prismatic globe and at the same time does not interfere with its efficiency. Manufacturers point out 85% more useful light and 100% wider reading area is made



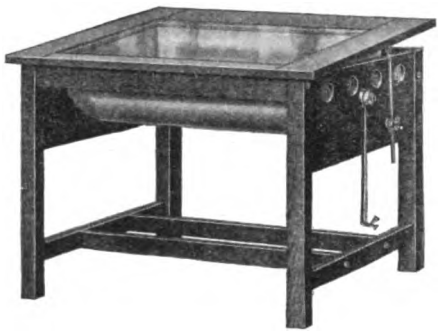
possible because of the integral Holophane Light globe containing the light rays. Manufacturers are the Holophane Glass Co., Inc., 342 Madison Ave., New York, N. Y.

Shadowless Tracing Table

MANY times the builder finds that he must retrace from blue prints, old drawings, etc., and where the lines are faint the task becomes a very difficult one indeed.

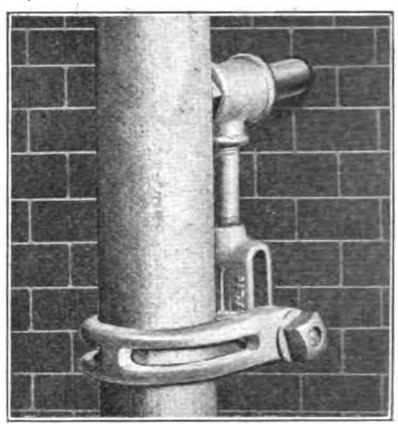
A practical item of equipment has been introduced that aims to eliminate much of this defect. It is a glass-top, shadowless tracing table fitted with electric lights. As the illustration shows, beneath the top is a parabolic reflector that provides even light distribution and prevents all eye strain. The table top is 36x48 in., hinged in front and adjustable at the rear.

The top frame is made of pine with lights and reflector attached to it so that the same relative position is had whether the top is raised or lowered. By using a sheet of celluloid between glass and drawing, a suitable working surface for compass or divider points is provided. Where it is necessary to work from small tracings or blue prints, these



are attached to glass with gummed stickers.

To prevent excessive heat, the table is thoroughly ventilated. This equipment has been added to the line of drafting and surveying supplies of the C. F. Pease Co., 838 North Franklin St., Chicago, Ill.



A Convenient Hanger for Risers

ILLUSTRATED is a handy type of riser pipe hanger supported from beams. Riser pipe is held by gravity of biting jaws. Loop is provided for expansion and contraction and this eliminates the difficulty of many types now in use.

This simple little device may save the builder much time and trouble in buildings where ordinarily the process of removing and replacing the riser leads to extreme difficulty. Manufacturer is H. Heide, 2789 Briggs Avenue, New York, N. Y.

Interesting Remodeling Work

IN the refinishing of the interior of the old Manhattan Casino, New York, it was decided to recoat over the various old surfaces, including wood, plaster and stamped metal. Morene was used and the work proved to be an excellent demonstration of the adherence of this plastic finish to old surfaces.

It suggests a novel means for remodeling contractors to refinish complete interiors with the least possible amount of work. It was unnecessary to give the old walls any special preparation. In the case of the Manhattan Casino the interior was thoroughly cleansed and all conspicuously defective areas were removed. Even plaster cracks required no treatment as long as original coat was solidly keyed to lath.

Morene as a plastic finish is not new to the building field. For general work where comparatively smooth finish is desired, the material is usually applied by plasterers. On the other hand, where rougher textures are used or where the work is made up of a two-tone mixture, made by applying two colors, the work is done by painters. It can be brushed or trowelled on, working up the texture while the material is in plastic condition.

To introduce colors, one method includes the mixing of pigments with the material before application. Another means is the staining of the surface with colored glazes and the introduction of colored sand or other surface aggregates. Morene is the development of the Morene Products Company, Inc., 154 East 47th St., New York.



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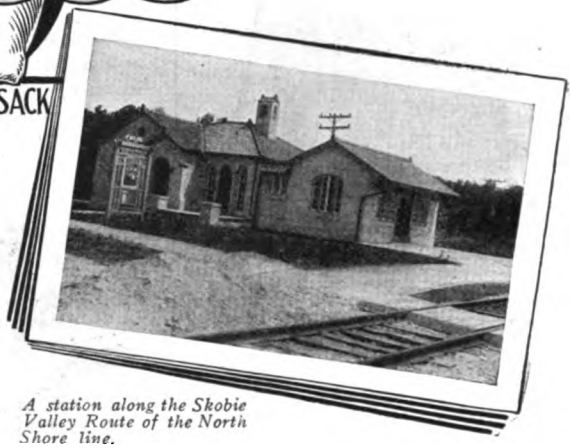
Water Proofed STUCCO



COMPLETE IN A SACK



A station along the Westchester Extension of the Chicago Rapid Transit Co.



A station along the Skobie Valley Route of the North Shore line.

The Endorsement of Construction Engineers

It is of definite value to every contractor to know of other jobs where Elastica, the Waterproofed Stucco, is used—where engineers consider every detail, make every possible test and select only the most substantial products.

Elastica is used on small buildings by many big transportation lines. It meets every demand of the most strict specifications, adding beauty to permanence. When engineers of this high standing with every facility at hand for testing, wide experience in building and no restriction in finances choose Elastica, the individual contractor can sensibly accept it for his jobs. Endurance and appearance are vital with railroad construction engineers. Elastica, with its low cost per square yard, is *your* stucco.



MAKE THIS TEST

We will send you samples, or you can make your own from stock material. Or you may get a piece of Elastica from some building where it has been used. Immerse it in water, break sample and note that water has not penetrated it. Do the same thing with ordinary stucco and note the difference.

Elastica is completely factory mixed—requires only water on the job. It is a thoroughly and permanently waterproofed stucco.

Elastica, selected by engineers, is *your* kind of stucco—it will make your jobs trouble-proof because it is waterproofed. And Elastica can be satisfactorily applied in extremes of temperature, even zero weather. Write for details of proper application and try Elastica on your next job. Use the coupon.

Manufactured by

U. S. MATERIALS CO......**Chicago** **AMERICAN MATERIALS CO.**.....**New York**
NORTH WEST MATERIALS CO......**St. Paul**

The *Waterproofed* Plastic Magnesia Stucco

ELASTICA

THE WATERPROOFED STUCCO

PLASTIC MAGNESIA

U. S. Materials Co.,
Wood St. and Sheffield Ave.,
Chicago, Ill.

Gentlemen.
Please send me, without obligation, samples for waterproofing tests; also further information on Elastica.

Name .....

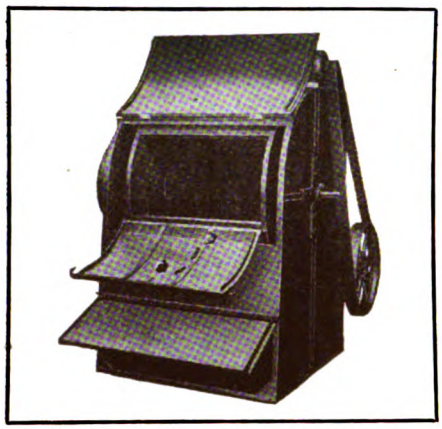
Address .....

(N. B. 11-26)

Elastica Dealers and Elastica Homes are Everywhere

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What's New in Materials and Equipment



New Sack Cleaner

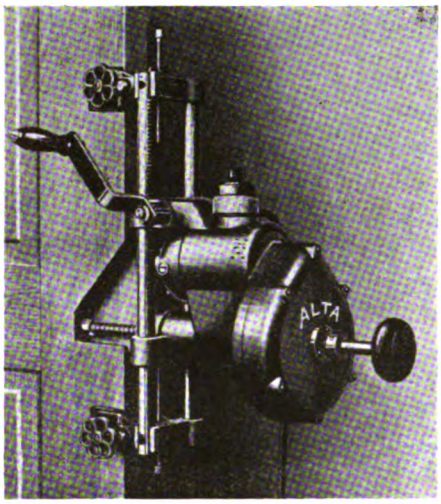
CEMENT reclaimed from so called empty sacks can be used. This fact, coupled with a 75% economy in labor as compared to sack cleaning by hand, have been reasons for the introduction of the Kwik-Way sack cleaner.

The equipment consists of an uneven reel encased with heavy reinforced sheet steel. Reel is wound with heavy wire netting and is easily removed. Sporman Mfg. Co., Cedar Rapids, Iowa, manufacturer.

Labor Saving Door Mortising Tool

THE outstanding feature of a new electric door mortiser is the fact that it mortises for the lock face plate as well as for the cylinder. This particular operation is usually considered the most costly part of lock fitting because the mortise must be accurate as to width and depth.

The Alta Lock Mortiser, as it is known, is equipped with a universal motor, 1/5 h.p. and will operate from any light socket, either a.c. or d.c. The operation is simple and the tool is under the control of the operator at all times. This is an essential feature on work where nails and hard dowels are apt to be encountered. Operator can quickly detect obstructions and regulate his speed accordingly, thereby avoiding excessive overload on the motor and damage to the tool. Cutter spindle is mounted on roller bearings and the gears run in grease. Manufacturers: Wappat Gear Works, Pittsburgh, Pa.

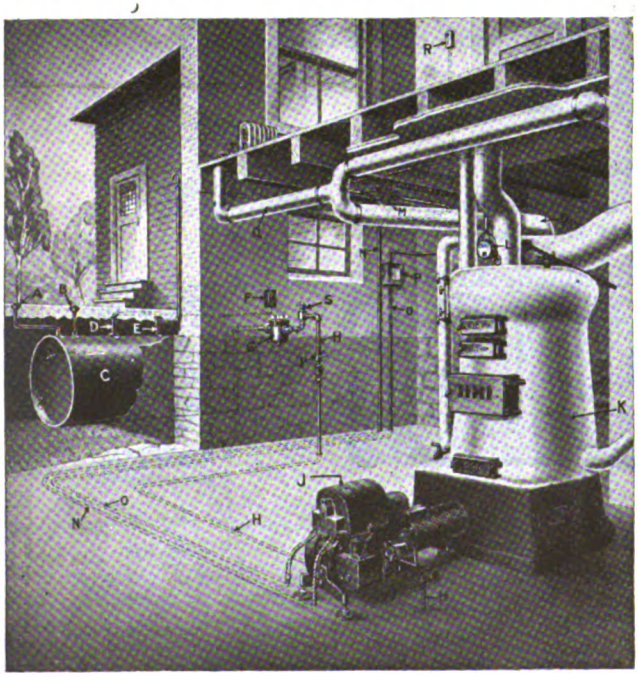


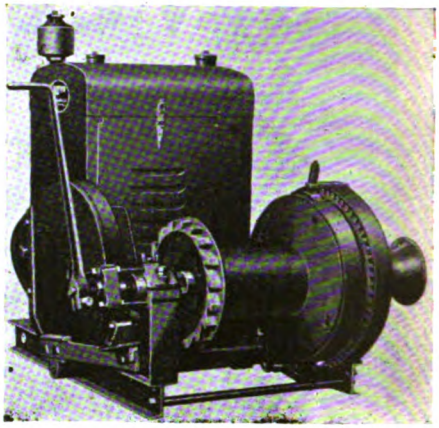
Practical Oil Burner

A BURNER for any type of heating system without need of change in existing equipment is a feature of the new Socony Automatic that is being introduced by the Socony Burner Corp., 9-11 E. 40th St., New York, N. Y.

The equipment has a number of patented features that would make for heating efficiency and satisfaction. It is used with steam, hot-water, vapor or hot air system without changing the heating system. The generator tube is inserted from the lower door of the furnace and bricked in. Fuel is supplied automatically from either a 1000-gallon. tank buried outside the house or a 275-gallon tank in the cellar.

The illustration shows a complete Socony Arrow Installation. (A) to (E) show tank equipment with filling box, gauge and air vent. Tank and gauge and strainer are shown at (F) and (G). (J) is the burner proper and (S) an anti-syphon valve. Thermostat shows at (R), with a safety control switch at L.





Well Built Hoist

A NEW development in light duty gas and electric driven hoist combines the strength features ordinarily found only in heavy duty equipment. The new unit, the Novo NH hoist, uses a non-warping, welded, tubular frame.

It is of the single free drum type, double cone, hard maple frictions, operated by high carbon thrust screw. The drum, 8 in. in diameter, 14 in. long, is bronze bushed and has a ratchet cast on end at operator's side of hoist.

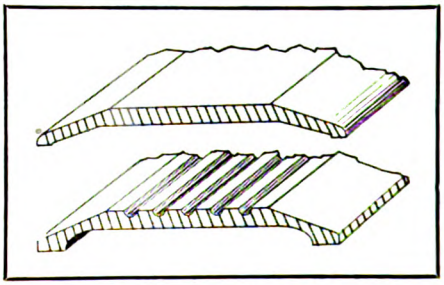
Cable capacities: 8 in. drum 1250 ft. of 3-8 in. or 700 ft. of ½ in. cable: 12 in. drum—700 ft. of 3-8 in. or 400 ft. of ½-in. cable. Intermediate and drum shaft bearings are babbitt and adjustable. Lubrication is by "Dot" high pressure grease gun.

The new development is light weight and still of large capacity. Intended for general hoisting work it fits in on many jobs heretofore requiring more expensive and heavier hoists. Manufacturer is the Novo Engine Co., Lansing Mich.

Brass Thresholds

ILLUSTRATED are two types of brass thresholds—plain top and fluted top. These are neat and practically designed and made from heavy solid brass, drilled, polished and distributed in any length up to 12 ft.

The use of metal thresholds is no longer limited to commercial buildings.



In the home that is built today to endure such installations are details that should not be overlooked in the purchase of larger items of equipment. The product illustrated is manufactured by the Master Metal Strip Service Co., 3945 W. Lake St., Chicago.

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KOHLER-equipped homes in Shawnee Park, Des Moines, Iowa: J. C. Ferguson Realty Co., Des Moines, Builders; Guy McDowell, Des Moines, Architect; Beckman Bros., Des Moines, Plumbing Jobbers; H. W. Landis Plumbing Co., Des Moines, Plumbers

BUILDING some fifty attractive homes a year, the J. C. Ferguson Realty Co., Des Moines, Iowa, are in position to know what features make houses easy to sell. And here, in the firm's own words, are their reasons for choosing Kohler Plumbing Fixtures:—

"Ferguson-made homes are featured by the installation of nationally advertised and thoroughly guaranteed products. Kohler Ware is included for this reason and because of its superior whiteness and quality. The 'Kohler U. S. A.' trade mark in the enamel is pointed out to prospective buyers as evidence of our using the best that can be had."

Why not make Kohler reputation an asset in *your* selling? Kohler fixtures will cost you no more.



In Kohler Village
The pleasant homes and pleasant living in Kohler Village are reflected in the quality of Kohler Plumbing Fixtures

KOHLER CO., *Founded* 1873, KOHLER, WIS.
Shipping Point, Sheboygan, Wis. · *Branches in Principal Cities*

KOHLER OF KOHLER
Plumbing Fixtures

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 243 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(*See also Alphabetical Index, page 226*)

ACCOUNTING MACHINES—See Bookkeeping Machines

ACOUSTICS

Celotex Co., 645 N. Michigan Ave., Chicago, Ill.
2664. *Acousti-Celotex.* Details and and specifications. Deal with new sound-deadening board.

Insulite Co., Builders Exchange Building, Minneapolis, Minn.
6824. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Sound Deadening and Insulating Materials.* Booklet. Illus.

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ASBESTOS PRODUCTS—See also Roofing

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.
2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.
2145. *Eternit Asbestos Lumber.* 12 pp. folder.
2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.
2147. *Instructions for Applying Eternit Asbestos Shingles.*

Johns-Manville, Inc., 292 Madison Ave., New York.
3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.
4121. *Shingles That Last.* Deals with metal and asbestos roofing.
4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASH DUMPS—See Fireplace Furnishings

ASH HOISTS—See Hoists

AXES—See Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.
3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus
3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Concrete Equipment

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Descrices a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.
2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog "A." Illus. Concerns several types of body showers.

Kohler Co., Kohler, Wisc.
6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.

Republic Brass Co., Cleveland, Ohio.
6661. *Republic Two Way Service Control.* Folder. Describes shower control lever.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5954. *The Transformation.* Describes how hall-end is converted into "Standard Five Foot Square Bathroom."
5955. *"Standard" Pembroke Baths.* Folder in colors.

Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* 10 cents.

White-Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich. New York Office and Display Room, Room 409, Columbia Bank Building, 507 5th Ave. Mr. Harry Parker in charge.
5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.
5342. *White-Steel Shower Curtain Poles.*
5343. *White-Steel Line.* Towel bars, tumbler and soap dish holders.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.
2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Brown Bed Co., Kansas City, Mo.
7011. *All Steel Disappearing Bed.* Designed to prevent collapsing.

Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Holmes Disappearing Bed Co. (See listing Concealed Bed Corp.)

Murphy Door Bed Co., 22 W. Monroe St., Chicago.
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.

BENCH GRINDERS—See Grinding Machinery

BILLING MACHINES—See Bookkeeping Machines

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2343. *Descriptive Literature on Blowers.* Illus.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2542. *Breezo Booklet.* Form 2320. Describes fan for domestic use.
2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.

BOILERS—See also Heating Equipment; Water Heating Systems

Riverside Boiler Works, Inc., 491 Main St., Cambridge, Mass.
5891. *Range, Boilers.* Describes galvanized and copper types.
5892. *Storage Systems.* Describes automatic. gas-fired types.

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.
2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.
2713. *Building Construction.* Booklet. Descriptive Literature.

McGraw-Hill Book Co., 370 7th Ave., New York.
6151. *New 1926 Catalog.* Describes handbooks of building construction.

Walker Co., Frank B., 536 Lake Shore Drive, Chicago.
4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BOOKKEEPING MACHINES

Elliott-Fisher Co., 342 Madison Ave., New York, N. Y.
6931. *A Machine Which Fits Your Business.* Booklet. Illus. Universal Bookkeeping machine.
6932. *Why.* Booklet. Illus. Basis of bookkeeping by machinery.
6933. *New Elliott-Fisher Automatic Electric.*
6934. *Machine Written Records.* 16 pp. Illus.
6935. *Pay Roll.* 16 pp. Illus. Machine operation.
6936. *The High Cost of Cost Accounting.*

BRACKETS—ROOFING, ETC.

Elite Mfg. Co., Ashland, O.
3011. *Scaffold Brackets.* Catalog. Deals with application.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4427. *Descriptive literature.* Includes prices.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* 16 pp. Describes *Trouble-Saver Steel Scaffolding.*

BRANDING IRON

Everhot Mfg. Co., Maywood, Ill.
3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.
2111. *The Story of Brick.* 5 pp. Illus. History and requirements.
2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.
2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.
2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.
2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.
2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illu Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.
2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.
2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.
2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.
2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.
2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.
2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 17 West 46th St., New York; also Watsontown, Pa.
5691. *Fisklock and other Face Brick.* Appeals to builders from popularity angle.

Hanley Co., 2 Main St., Bradford, Pa.
5961. *Bradford Reds.* Four types of smooth and rough texture face brick.

BRIDGING—See also Metals and Metal Specialties

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6841. *Tru-Tye Steel Bridging.* Steel tension bridging holding without nails.

General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder. A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

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Theodore A. Meyer, N. Y., Architect
This house has Ideal Brick Hollow Walls—beautiful, economical—"All-Brick." Working blueprints of this house are now available through this Association—at nominal cost.

"What's in the Walls"

It Pays to answer—"*All-Brick*"

The *walls* of your buildings can be your strongest selling point. And they should be—for the exterior walls and footings are the most important parts of the structure.

Watch for the Common Brick advertising campaign in the *Saturday Evening Post*, *House Beautiful*, and many other magazines. It is educating the public to ask "What's in the Walls?"

It is telling them that *All-Brick* walls are practically indestructible — fire-safe, decay-proof. And that a brick building holds its resale value longer than any other type.

Common Brick has been selected wherever brick is used—in all the houses of the National Demonstration Model Homes Series. Send for the books below. They explain the many modern uses for Common Brick.

At Your Service

These District Association Offices and Brick Manufacturers Everywhere

Chicago . 614 Chamber of Commerce Bldg.
Denver . . . . . 1735 Stout St.
Detroit . . 400 U. S. Mortgage Trust Bldg
Hartford, Conn. . . . . . 226 Pearl St.
Los Angeles . . . . 342 Douglas Bldg.
New York City, 1710 Gr'd Cen. Term'l Bldg.
Norfolk, Va. . . . 112 West Plume Street
Philadelphia . . . 303 City Centre Bldg.
Portland, Ore. . . . 906 Lewis Building
Salt Lake City. . . . . . 301 Atlas Blk.
San Francisco . . . 932 Monadnock Bldg.
Seattle, Wash. . . . . . 913 Arctic Bldg.
Springfield, Mass., 301 Tarbell-Watters Bldg.

The Common Brick Manufacturers' Association *of* America
2133 Guarantee Title Building
CLEVELAND, OHIO

BRICK forever

Common Brick Ass'n.
2133 Guarantee Title Bldg., Cleveland, O.

Send me the Books of Brick Beauty and Economy, checked below, for which I enclose the price indicated.

☐ "*Your Next Home*"—(New Edition) Photos and Plans of 57 homes (10c)
☐ "*The Home You Can Afford*"—62 homes (10c)
☐ "*Brick, How to Build and Estimate*"—(25c)
☐ "*Skintled Brickwork*"—(15c)
☐ "*Farm Homes of Brick*"—(5c)
☐ "*Brick Silos*"—(10c)
☐ "*Multiple Dwellings of Brick*"—10c
☐ "*Hollow Walls of Brick*"—FREE

Name _____

Address _____

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Selected List of Manufacturers' Literature

(Continued from page 158)

BUILDING CONSTRUCTION

Copper & Brass Research Assn., 25 Broadway, New York.
5941. *Literature.* Booklets on copper, brass and bronze.
General Fireproofing Co., Youngstown, O.
3221. *The Fireproofing Handbook.* 72 pp. Illus.
Home Owners' Service Inst., Inc., 441 Lexington Ave., N. Y.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price, 10 cents
Mortarless Tile Mach. Co., 21-22 Carrillo Bldg., Santa Barbara, Cal.
6531. *Build With Interlocking Concrete Tile.* Describes machine. gives details and typical installation. 12 pp. Illus.
National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.
National Stone Tile Corp., 625 Market St., San Francisco, Calif. and 15 E. 40th St., New York.
7231. *Stone Tile Booklet.* Information on establishing local Stone Tile plant.
Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.
1792. *Truscon Standard Buildings.* Form D-398. 44 pp.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.
4794. *Modern School Construction.* Form D-395. 16 pp.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

BUILDING PAPER

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper
Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.
Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature.

BUILT-IN FEATURES

Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on laundry tubs.
Berriman Biltin Wardrob Co., Tribune Tower Bldg., Chicago.
6981. *Berriman Biltin Wardrob.* Built of gum, walnut finished, designed to take place of clothes closet.
Brown Bed Co., Kansas City, Mo.
7011. *All Steel Disappearing Bed.*
Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*
Dudfield Mfg. Co., 120 W. Kansas St., Liberty, Mo.
6511. *All-Metal Chalk Tray.* Installation includes eraser cleaner.
Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.
Kenny-Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.
Kolstad Mail Box Co., 402 W. 1st St., Duluth, Minn.
6801. *Kolstad Mail Box.* For various thicknesses of wall.
6802. *Kolstad Mail Chutes.* Telescopes to fit any thickness of wall.
Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.
Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.
Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Penn-Gregg Mfg. Co., 809 University Ave, St. Paul, Minn.
6251. *Mailo Box.* Booklet. Includes prices on built-in mail box.
Richmond Cabinet Co., Richmond, Ind.
6941. *Five Piece Kitchen Assembly.* Finished in white or gray.
Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. 12-*page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.
White-Steel Sanitary Furniture Co., Grand Rapids, Mich.
New York Office and Display Room, Room 409, Columbia Bank Building, 507-5th Ave. Mr Harry Parker in charge.
5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.
5342. *White-Steel Shower Curtain Poles.*
5353. *White-Steel Line.* Towel Bars, tumbler and soap dish holders, glass shelves, robe and razor strop hooks, grab-rails, etc.

CABINETS—See Built-In Features; also Bathroom Fixtures

CALCIUM CHLORIDE—See Concrete Process

CANVASS—See Roofing Materials

CARBURETORS—See Trucks, Motor Supplies

CARPENTERS' TOOLS—See Tools, Edge, also Tools

CASEMENTS—See Windows, also Windows, Metal

CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings, Columns* (Iron and Steel).

CAULKING AND GLAZING COMPOUNDS

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* 14 pp. Illus. Asphalt putty.
Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.
A. C. Horn Co., Long Island City, N. Y.
6592. *Vulcatex Folder.*
6593. *Hornglaze.*

CEILINGS, METAL—See Metals, etc.

CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland

Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical.
2063. *Alpha Service Sheets.* Instructions on concrete construction.
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar*, a building mortar.
Lehigh Portland Cement Co., Allentown, Pa.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
3774. *28 Better Homes.* Describes winning designs in Lehigh Cement Small House Competition
Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.
Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.

CEMENT—High Temperature

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* 14 pp. Elastic Boiler cement.
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Aerite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT COLORS—See Mortar and Cement Colors.

CEMENT PAINT—See Paint, Cement

CEMENT, TILE

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.

CEMENT TOOLS

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.*
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHALK TRAY

Dudfield Mfg. Co., 120 W. Kansas St., Liberty, Mo.
6511. *All-Metal Chalk Tray.* Installation includes eraser cleaner

CHIMNEY CAPS—See Ventilators, also Metals, etc.

CINDER BLOCKS—See Building Blocks

CLAMPS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.
Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

COAL CHUTES

H. W. Covert Co., 137 E. 46th St., New York.
6322. *Covert Coal Chutes.* Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2052. *Descriptive literature.* Illus.
Kewanee Mfg. Co., 105 No. Tremont St., Kewanee, Ill.
5971. *Kewanee Coal Chutes.* Describes copper steel types with plain or glass doors.
Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools

COLORS, CEMENT, MORTAR, STUCCO—See Mortar Colors

COLUMN BASES

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus.

COLUMN AND BEAM COVERING

United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*

COLUMNS, WOOD

Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.

COMBINATION DOOR—See Doors

COMBINATION WOODWORKERS—See Woodworking Machinery

CONCRETE ACCESSORIES

Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples of standard and junior clips for anchoring wood floors to concrete
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.

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Kalamazoo Furnaces

No Repair Cost on 106 Furnaces in 8 Years—and No Complaints!

Kalamazoo furnaces are ideal for the use of contractors and builders. The wonderful service they give is shown by the quotation at the right from a letter from a builder who has used over 100 Kalamazoos.

If you are building one house or fifty houses, you will find it to your profit to equip them with Kalamazoo hot-air furnaces for these reasons:

1. You buy at the Factory Price

Direct dealing with the furnace manufacturer saves you money and increases your profit on every building! There is no dealer's or jobber's discount, no matter how small, in the price you pay for Kalamazoo furnace. *You* are the one who gets the absolute *rock bottom figure.*

The double economy of direct selling and tremendous production goes to you as money saved and a higher profit earned.

2. You Can Guarantee for 5 Years At Our Risk

Every Kalamazoo furnace is absolutely guaranteed for 5 years against cracking, breaking or burning out of any part due to poor material or workmanship. You can pass on this guarantee to the purchasers of your houses, insuring them of *guaranteed heat.*

Kalamazoo furnaces have acceptance everywhere and you will find every one an added argument for selling the *house.*

3. You Save On Installation Cost

We supply you, FREE, complete installation plans if you will furnish us building plans. With these plans, any good workman can install Kalamazoo furnaces perfectly. If you have been turning over this work to heating contractors, you can make a big saving by installing the Kalamazoo furnace *with your own men.*

Every Kalamazoo is a quality furnace fit to go into the best house anybody can build. We can make specially attractive prices to contractors who are building several houses at once. Mail the coupon today for a quotation.

KALAMAZOO STOVE COMPANY, Mfrs.
Kalamazoo, Mich.

"A Kalamazoo Direct to You"
Trade Mark Registered

E. C. WEIMER
CONTRACTOR AND BUILDER

Morgantown, W. Va. September 6, 1926

Kalamazoo Stove Company,
Kalamazoo, Michigan

Gentlemen:

I want to express to you my appreciation of your service to me which has always been A-No. 1, and I want to say to the public that in buying a furnace you cannot beat the Kalamazoo furnace.

I have installed over 100 Kalamazoo furnaces and I have not got one customer, to my knowledge, but that is perfectly satisfied with his heating plant. The materials cannot be improved. I have plants which have been installed for over eight years and not one of them has cost a penny except for fuel. That is a fine record and incidentally it helps my reputation with the people who buy my houses. I have always found that the Kalamazoo furnace will furnish as much heat — or more — as any furnace I know of.

Yours very truly,

E. C. Weimer

The quotation above shows how satisfactory one big contractor has found the Kalamazoo furnace.



Mail This Coupon for Quotation

KALAMAZOO STOVE COMPANY,
546 Rochester Avenue,
Kalamazoo, Michigan.

Gentlemen: I am interested in building.....houses of about .... size. Please let me know without obligation on my part what quotation you can make on ☐ Pipe ☐ One Register furnaces for these houses.

Name .....

Address .....

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Selected List of Manufacturers' Literature

(Continued from page 160)

4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

C. K. Williams & Co., 636 N. 13th St., Easton, Pa.
6601. *Anchor Brand Water Colors and Cement Colors.* Folder.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY AND EQUIPMENT

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.

Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus.
2683. *More Yards Per Day.* Catalog. 38 pp. Describes Rex high speed idea.
2684. *The New Rex* 14-S. 18 pp. Catalog No. 136. Apply Rex high speed idea to larger building mixers.

Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

J. B. Foote Foundry Co., 26 Front St., Fredericktown, Ohio.
3111. *Panama Line.* Catalog. Includes Panama concrete block machinery, concrete mixers, sill and cap machines, etc.

Heltzel Steel Form & Iron Co., Warren, Ohio.
3391. *Steel Batch Boxes.* Seamless, One-Piece Bottoms.
3392. *Steel Curb, Sidewalks and Driveway Forms.* Catalog.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.

Knickerbocker Co., 550 Liberty St., Jackson, Mich.
6131. *Knickerbocker Catalog.* Describes Knickerbocker line of Quality Equipment for Builders. State desired machine.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

Mortarless Tile Mch. Co., 21 Carrillo Bldg., Santa Barbara, Cal.
6531. *Build With Interlocking Concrete Tile.* Describes machine, gives details and typical installation. 12 pp. Illus.

Raber & Lang Mfg. Co., 829 Mill St., Kendallville, Ind.
6181. *Crescent Concrete Machinery.* Catalogs. Include description of titling mixers, block tampers, sewer pipe and tile moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog, 1925.* Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Nebawka, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp.
4562. *A Series of Leaflets,* Folders, etc. Illus.

Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Concrete Mixers and Pavers.* Catalog No. 500. Illus.
4592. *Smith 27 E Six Bag Paver.* Catalog 409-F. 40 pp. Illus.
4594. *Smith Glass Batch Mixers.* Catalog 404-A. 16 pp. Illus.
4595. *Smith Railway Pavers.* Bulletin 1015. 8 pp. Illus.

Standard Scale & Supply Corp., Pittsburgh, Pa.
6351. *Standard Mixer Booklet.* Deals with complete line of "Standard concrete machinery.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog* 25. Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.
5581. *Van Guilder Wallbuilder. Booklet.* Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.
6861. *Anti-Hydro Formula.* For hardening, waterproofing, and dampproofing concrete, stucco and cement mortar.

General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus.

A. C. Horn Company, Long Island City, N. Y.
6595. *KeramiK KemiK Stains.* Brochure. Chemical penetrating stain giving artistic color effects.
6596. *Hornstone Crystals.* Folder. Chemical floor hardener.
6597. *Ferro-Fax.* Folder. Metallic floor hardener.

National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

Solvay Process Co., 40 Rector St., New York.
4601. *Solvay Calcium Chloride in Concrete Construction.* Book.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS—See Fireplace

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DASH—See Stucco Dash

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No.* 2. Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass

DIRECT MAIL ADVERTISING—See Mailing Lists

DISAPPEARING BEDS—See Beds, Door

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog.

DOORS, WOOD

Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Paine Lumber Co., Ltd., Oshkosh, Wisc.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.

Wheeler, Osgood Co., Tacoma Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31 Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

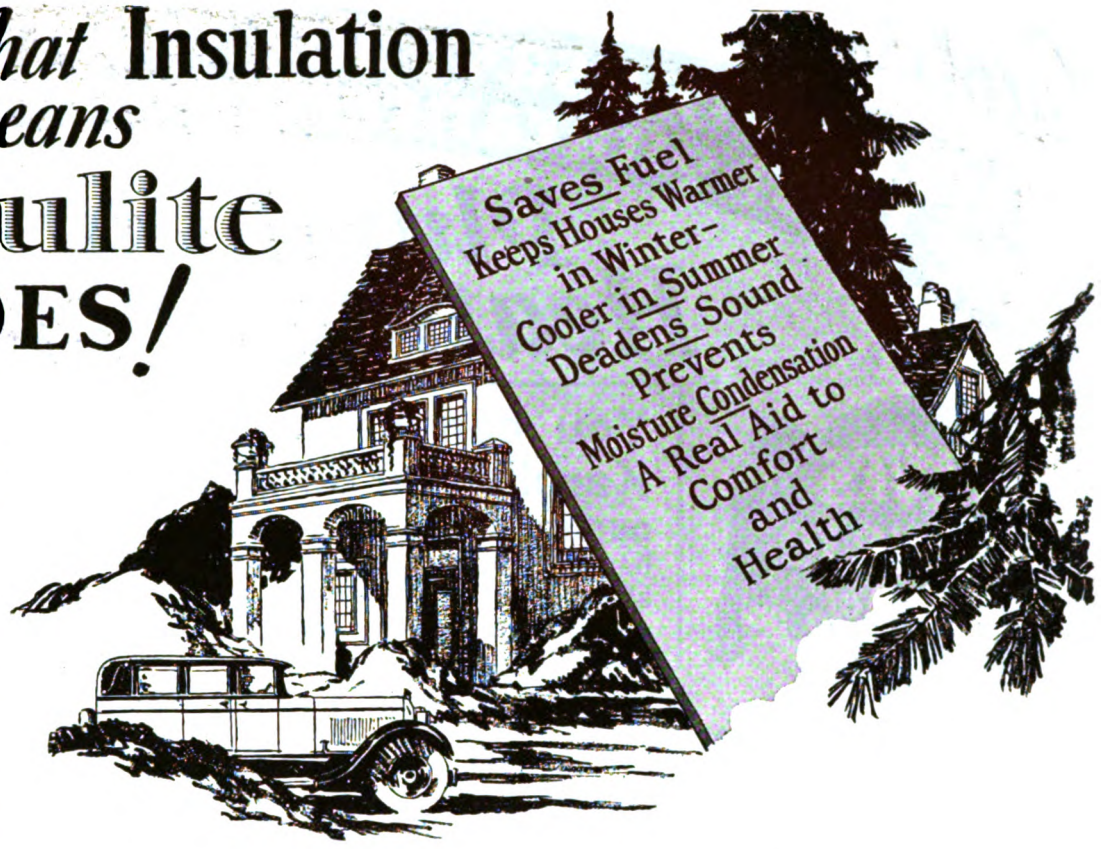
DOOR BEDS—See Beds, Door; also Built-in Features

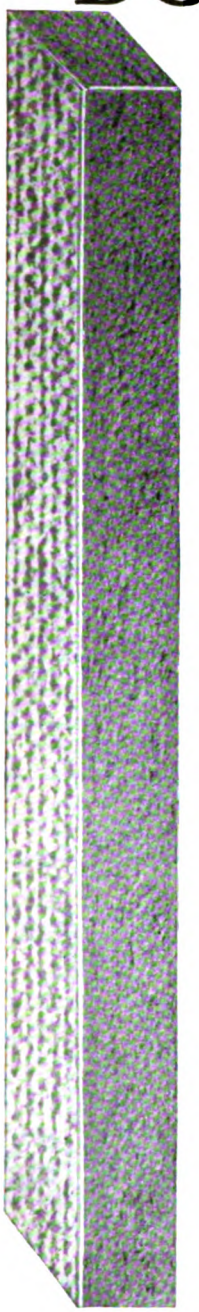
DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Beckmann Co., L., 1002 Jackson Ave., Toledo, Ohio.
2421. *Convertible Level* included in catalog. 80 pp.

All that Insulation *means* Insulite DOES!





Insulite is a half inch thick. Comes in neat strong bundles and is delivered to the job in perfect condition.

Buyers Want *Insulated Homes*

Houses in which Insulite has been used command higher prices when offered for sale.

Properly insulated houses are the first choice of the buying public.

Insulation — as achieved by a material like Insulite — is the outstanding feature of modern building. The public is *sold* on it. Buyers know that houses are warmer in winter — cooler in summer — are healthier and more comfortable all year — are stronger and better in every way because of the use of this great Insulating and Structural Material.

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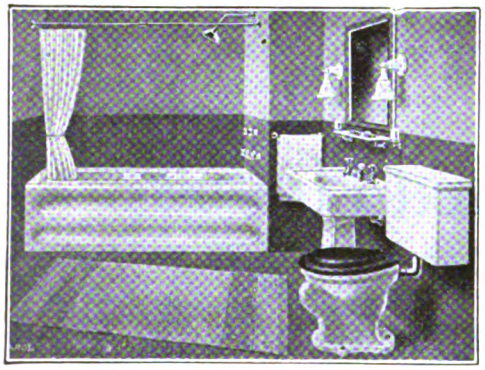
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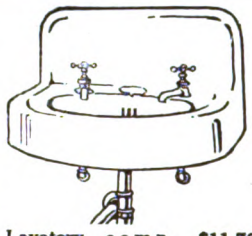
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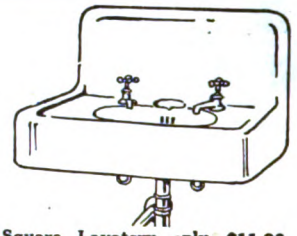
You can always save money at Karol's and be assured of the best quality of goods. We carry a big stock on hand and can make immediate shipments. Try us on an order today. Estimates free.



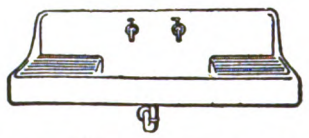
Peerless Bath Room Outfit $114. Beautiful—Complete, without shower. Bath tub: Built-in apron pattern 30"x5'. Enam. inside and out. **Tub comp., $64.50. Closet:** deep seal syphon, wash down type with jet. Large high grade **solid porc. tank.** Heavy interior fixtures. **Lavatory**—square ped. type. High grade porc. enam. 20x24" slab. Nickel plated fixt. and pipes. Pop-up waste fixture. China knobs. Singly **$30.** Shower equipment **$12** extra.



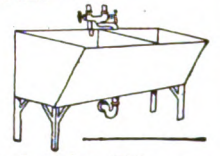
Lavatory comp. $11.70. Newest style, porc. enamel cast iron. 17x19 in. 6 in. back. Nickel plated cocks, trap and pipes, 18x21 in. size with 8 in. back **$12.50.**



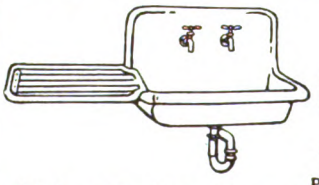
Square Lavatory only $11.90. Porc. enam. cast iron. 18x24 in. 10 in. back. Equipped with China indexed **nickel plated compression cocks.** Nickel plated trap and supply pipes to floor or wall **$4.20** extra.



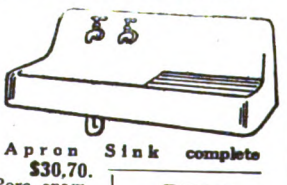
Apron Sink complete $51. Porc. enam. 62 in. Double drain board. Nickel plated faucets and trap. Supported on wall hangers.



Granitine Laundry Tub complete $12.55. Two compt., 48 in. This tub is specially made and can be depended on. $2.25 mixing faucet free with each tub.



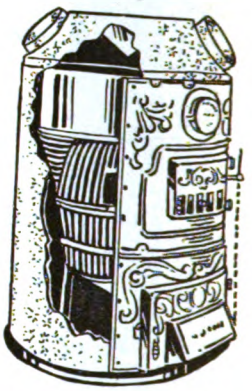
Sink with Reversible Drain Board complete $18.25. Porc. enam. with reversible drain board. Nickel plated faucets and trap. Size 18x24 in.



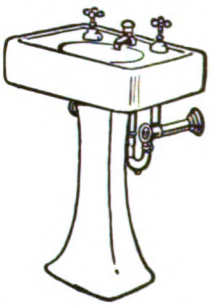
Apron Sink complete $30.70. Porc. enam. 42 in. R. or L. drain board. Nickel plated faucets and trap. Supported on wall hangers. **Roll rim sink $26.**



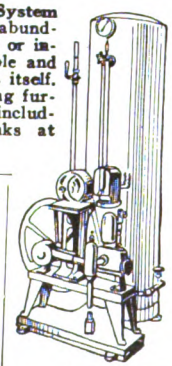
Solid Vitreous China Closet Complete $19.80. Heavy cast brass parts. Syphon, wash down type with jet.



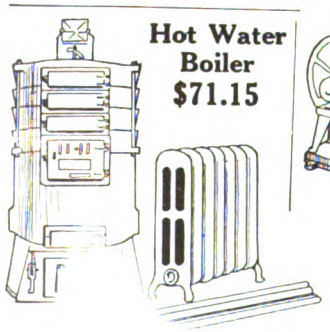
Karol Hot Air Furnace with double heating surface. **Cannot** leak, smoke or **gas.** Solid **gas** fire pot, radiator and base plate. Burns any fuel, gives intensive heat. Send for full description. 18 in. fire pot seven room size **$56.98.** Other sizes at low cost. **Karol Pipeless Furnace seven** room size **$69.00.**



Pedestal Lavatory complete $34. Porc. enam. with heavy brass nickel plated **fittings. Size** 20x24 in., 32 in. high. Equipped with newest hot and cold water mixing **valve.**

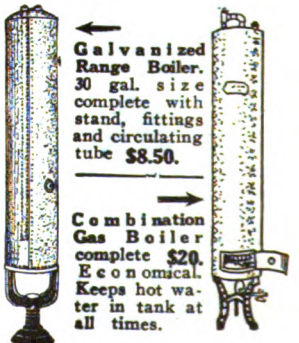


Electric Automatic Water System complete $87.50. Furnishes abundance of running water in homes or institutions. Absolutely dependable and made of finest materials. Runs itself. Requires no attention. Evrything furnished complete at this price, including 42-gal. tank. Larger tanks at slight additional cost.



Hot Water Boiler $71.15

Karol Hot Water Boilers—deliver every ounce of heat and are very economical on fuel. Corrugated sections with back and forth fire travel. 700' rating boiler **$71.15. Other sizes at low prices.**



Galvanized Range Boiler. 30 gal. size complete with stand, fittings and circulating tube **$8.50.**

Combination Gas Boiler complete $20. Economical. Keeps hot water in tank at all times.

B. Karol & Sons Co.

Dept. 26, 800-802 So. Kedzie Ave.

Chicago, Ill.

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Selected List of Manufacturers' Literature

(Continued from page 162)

Empire Level Mfg. Co., 313 First Ave., Milwaukee, Wis.
6271. *Empire Levels.* With patented interchangeable vial case.
Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.
Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments
White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)
Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No. 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT
Frank Adam Electric Co., St. Louis, Mo.
6041. *Panel Board Hand Book.* Catalog. Contains data for contractor and electrical engineer.
Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.* Illus.
Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Completely wired lighting fixtures.
General Electric Co., Bridgeport, Conn.
3215. *G-E Farm Book.* Y-1948. 30 pp. Electricity on the farm.
3216. *G-E Welding Electrodes.* Folder.
3217. *Wires and Cables.* 85 pp. Illus. 4 bulletins.
3218. *Electric Fans.* Folder gec-20. 6 pp. Illus.
3219. *Multiply Conveniences by Three.* Folder GEC-25. 4 pp. Shows use of three devices from one outlet.
32111. *Cord Switch.* GEC-7. 4 pp.
32112. *For Dependable Soldering.* GEC-6. Soldering paste.
32113. *Oh, Boy, Now for DX.* 4 pp. On new model G-E Tungar Battery Charger.
32114. *G-E Tungar Battery Charger.* Leaflet GEC-19. 2 pp.
32115. *G-E Wiring System for Lifetime Service.* GEC-2. 6 pp.
32116. *The Home of 100 Comforts.* 40 pp. Y-1834. Complete treatise on adequate wiring. 25 cents.
Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42nd St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.
5003. 1926 *Catalog.* For electrical contractors.
Guth Co., Edwin F., St. Louis, Mo.
7111. *Guth Lite. Folder.* Fixture in plain and ornamental types.
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3313. *Tumbler Switch.* Folder. 4 pp. Illus.
3315. *H & H General Catalog "S."* Includes new listings of flush, snap and canopy switches and candle sockets and receptacles.
3316. *Porcelain Lighting Outlet.* 4 pp. For wiring jobs.
3317. *Renewable Fuse Plug.* Circular. Two-Piece Plug.
Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.
Kohler Co., Kohler, Wisc.
6892. *Principle and the Proof.* Booklet. 32 pp. Describes private electric plants. Automatic, 110 volt, no storage batteries.
Marco Light and Power Corp., Lansing, Mich.
7151. *Electric Plant Power with "New-Way" Engine.* Catalog M-27.
Paramount Electric Co., 251 Y Market St., Philadelphia, Pa.
7181. *General Catalog.* Complete line of fixtures.
Stairway Switch Co., 235 Brookdale Ave., Glenside, Pa.
7051. *Stairway Switch.* Installed beneath cellar stair treads for automatic light control.
Western Elec. Co. (See Graybar Electric Co.)

ELEVATORS
American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No.* 22. Contains description of hoists.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.
Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Details of Specifications.* The Service Department provides individual sheets to meet the specific needs of elevator users.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT
McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp., Illus.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES
Fuller & Johnson Mfg. Co., 406 Ames St., Madison, Wisc.
6791. *Bulletin No.* 430. Engines for use with concrete mixers.
6792. *Bulletin No.* 500. Two Cylinder Engines for industrial work.
Novo Engine Co., Lansing, Mich.
4221. *Industrial Power Units.* 12 types of drive.

EXHAUSTERS—See Blowers; also Ventilators

FANS—See Blowers

FIBRE BOARD LUMBER—See Wallboard

FINISHES, PLASTIC—See Plastic Finish

FIREPLACE FURNISHINGS AND EQUIPMENT
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.
Colonial Fireplace Co., 4603-4617 West 12th St., Chicago.
6681. *Everything for the Fireplace.* Catalog. 48 pp. Illus. Covers line of grates, andirons, dampers, mantels, etc.
H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2051. *Book of Fireplace.* 24 pp. Illus.
Jacobson Mantel & Ornament Co., 322 East 44th St., New York.
6961. *Architecture and the Chimneypiece.* 10 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6361. *Mesker Fireplace dampers and ash dumps.*
Pioneer Fireplace & Supply Co., 5329 West Lake St., Chicago.
5721. *Fireplaces.* Booklet. Deals with various types.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE
General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.
A. C. Horn Co., Long Island, N. Y.
6599. *16 Floor Problems and How to Solve Them.*
Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Treatment for Floors, Woodwork and Furniture.* 32 pp.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING
Arkansas Oak Flooring Co., Pine Bluff, Ark.
6851. *Perfection Brand Oak Flooring.* Size and grade for every type of structure.
Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.
Bruce Co., E. L., Memphis, Tenn.
5701. *Catalog.* 24 pp. Illus. Deals with convenience and wearing qualities of Bruce Oak flooring.
Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples. Standard and junior clips for anchoring wood floors to concrete.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Crooks-Dittmar Co., Williamsport, Pa.
6621. *Cromar Ready Finished Oak Flooring.* Concerns manufacture, selling and laying varnished and waxed flooring.
Eaglesfield Flooring Co., 914 Dorman St., Indianapolis, Ind.
6331. *Illustrated Book.* Designs in natural colors of parquetry and hardwood floors of Indiana quartered white oak.
Jackson Lumber Co., Lockhart, Ala.
5772. *Dixie Rift Flooring. Booklet.* End-Matched Flooring.
Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.
Maple Flooring Mfrs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors.* Booklet. 16 pp. Deals with laying and finishing.
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3934. *The Floor Which the Years Will Make Precious.* Folder.
3935. *A Floor of Captive Sunlight.* Illus. Folder.
3937. *Folder.* 1½-inch face maple, beech or birch.
39312. *Grading Rules.* Booklet. 8 pp.
Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus
Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.
Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

FLOORING, COMPOSITION
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6382. *Genasco Asphalt Mastic Booklet.* 32 pp. Illus.
Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOOR SANDERS—See Sanders

FLOOR SURFACING MCHY.—See Sanders,

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FLUE LINING
W. S. Dickey Clay Mfg. Co., Birmingham, Ala., Chattanooga, Tenn., Kansas City, Mo., Macon, Ga., Texarkana, Tex.
6101. *Dickey Fire Clay Flue Lining.* Catalog.

FORMS—See Concrete Machinery

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Selected List of Manufacturers' Literature

(Continued from page 165)

FRAMES, DOOR AND WINDOW

Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Frames.* 48 pp. Illus. Complete catalog.
2242. *How To Test Window Frames.* 12 pp. Illus.

Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5202. *Windows, Doors and Frames.*

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS—See Incinerators

GARBAGE RECEIVERS

H. W. Covert Co., 137 E. 46th St., New York.
6323. *Covert Garbage Receivers.* Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.

Majestic Company, Huntington, Ind.
3903. *Garbage Receivers.* Catalog of Majestic products

GAS PRODUCERS

Detroit Suburban Gas Plant Co., Detroit, Mich.
5831. *Literature.* For suburban homes.

GLASS

American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.

Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Store Fronts.* 36 pp. Cuts and details.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Factrolite and Pentecor wire glass.
4012. *Factrolite.* Describes this type of diffusing glass.
4013. *Pentecor.* Combination rib and prism wire glass.

GLAZING COMPOUND—See Caulking

GLUE POTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.

Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.

GRADEFINDERS—See Drafting & Surveying

GRATINGS, STEEL

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6842. *Steel Grating.* For flooring, runways, etc.

GRILLES—See also Registers

Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM

United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware, Window and Door

HARDWARE, WINDOW AND DOOR

Allith-Prouty & Co., Danville, Ill.
6051. *King Take-apart Adjustable Hinge.* Literature. Describes adjustable screen door hinge and other A.-P. products—fire and garage door hardware, door hangers, overhead carriers, spring hinges, rolling ladders.

Austral Window Co., 101 Park Ave., New York.
6081. *Austral Sash Sustainer.* Device for replacing weights on sash not exceeding 18 lbs. Sample, 50c a set.

Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.

Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.

Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*

Coburn Trolley Track Mfg. Co., Dept. G-1, Holyoke, Mass.
6751. *Sliding Door Hardware for Garages, Factories, Warehouses.* Catalog No. 140.

Ideal Sash Supporter Co., Kingston, Pa.
8321. *Ideal Window Sash Supporters.* Literature. Describes supporters used in sets of four on each sash.

Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.

Lockwood Mfg. Co., New Haven, Conn.
5281. *Lockwood Casement Window Adjusters.* Folder. 4 pp. Illus.

McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
9852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Pullman Mfg. Co., Rochester, N. Y.
4371. 15 *Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog 40.* Sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

Stanley Works, New Britain, Conn.
6671. *Hardware—Window, Door and Garage.*
6672. *Detail Manual.* Shows application of all Stanley Hardware.

Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HARDWOOD FLOORING—See Flooring

HEATING EQUIPMENT—See also Ranges

American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.

Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.

Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.

Buffalo Co-operative Stove Co., Buffalo, N. Y.

Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.

H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly for various types of fireplaces.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.

Kalamazoo Stove Co., Kalamazoo, Mich.
7201. *Pipe Furnaces and One Register Types.*

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Majestic Company, Huntington, Ind.
3902. *Ash Pit and Clean Out Doors.* List of Majestic products.

Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.

Silent Automatic Corp., 255 Meldrum Ave., Detroit, Mich.
7041. *Silent Automatic Oil Burner.* Describes operation in detail.

Skinner Bros. Mfg. Co., Inc., 1426 S. Vandeventer Ave., St. Louis, Mo.
7241. *Steam Coil Heaters.* For industrial buildings.

Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* 10 cents.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.

United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.

HORSES—See Scaffolding

HOUSE MOVING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS

Buffalo Co-operative Stove Co., Buffalo, N. Y.
5821. *Sanotype No. 10.* Deals with gas burning of garbage.
5822. *Sanotype No. 1.* Coal burning for toilet and garbage.
5823. *Isolator.* Gas burning. Hospital.
5824. *Amherst Incinerator.* Booklet. Gas burning garbage destroyer.
5825. *Amherst Incinerator.* Folder.
5826. *Toilet and Waste Destroyer.* Booklet. For coal, coke or wood.
5827. *General Catalog.* Covers entire line.

Kerner Incinerator Co., 727 East Water St., Milwaukee, Wis.
3641. *Sanitary Elimination of Household Waste.* Booklet. Illus. Kernerator for residences.
3642. *Incinerators (Chimney Fed).* No. 15. Information and data for residences, apartments, clubs, etc.
3643. *Garbage and Waste Disposal for Apartments.* 8 pp.
3644. *Sanitary Disposal of Waste in Hospitals.* 12 pp. Illus.

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Selected List of Manufacturers' Literature

(Continued from page 166)

INJECTERS—See Water Systems

INSULATION

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisakraft.* Samples to show composition—two layers No. 1 Kraft, 2 layers Asphaltum, 2 layers Javas sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protectvie Products.* Booklet. 14 pp. Illus.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus. Deals with Bishopric Stucco and Sunfast finishes.

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Insulating Quilt.* Booklet. 24 pp.
2595. *Cabot's Deadening Quilt.* Booklet. 28 pp.

Celotex Co., 645 North Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.*
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6821. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.
3550. *Insulating Materials.* 22 pp. Illustrated.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature.

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4x8 ft. and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus.

IRONING BOARDS—See Built-In Features

JACKS, BUILDING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL

General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

KITCHEN SINKS

Kohler Co., Kohler, Wisc.
6691. *Kohler Line.* Bathroom fixtures and plumbing equipment.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5956. *Is Your Sink a Yard Stick High?* Folder in color.

LAMP STANDARDS

Geo. L. Mesker & Co., Evansville, Ind.
63611. *Mesker Cast Iron Lamp Standards.* White Way lamp posts. Includes stock models and special designs.

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES

Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.
5801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS—Metal and Wood

Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofing.* Literature. Illus.
5944. *Copper Flashings.* Hand-Book.

E. M. Long & Sons, Cadiz, Ohio.
7211. *"Improved" O. G. Fir Gutters.* Booklet. Illus.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING FIXTURES—See also Electrical Equipment

Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Completely wired lighting fixtures.

Guth Co., Edwin F., St. Louis, Mo.
7111. *Guth Lite.* Folder. Fixture in plain and ornamental types.

Jacobson Mantel & Ornament Co., 322 East 44th St., New York.
6962. *Grinling Gibbons Electric Light Wall Fixtures.*

Paramount Electric Co., 251 Y Market St., Philadelphia, Pa.
7181. *General Catalog.* Complete line of fixtures.

LIGHTNING RODS

Copper & Brass Research Assn., 25 Broadway, New York.
5945. *Side Tracking Lightning.*

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME

Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*

National Mortar & Supply Co., Pittsburgh, Pa.
6771. *Banner Finish Specifications and Other Descriptive Literature.*

LINOLEUM—See Flooring

LUMBER AND WOODWORK

Arkansas Soft Pine Bureau, 801 Boyle Bldg., Little Rock, Ark.
6441. *Handbook.* Includes finishing instructions. Samples of natural and finished panels.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
2613. *Some "Dollar-Sense" About Lumber on the Farm.* 32 pp. Construction details with description.
2614. *Introducing "Cal" Pine, Guardian of the Grades.* 50 pp.

Chicago Millwork Supply Co., 1400 West 37th St., Chicago.
5871. *Millwork and Building Material Catalog.* Illus.

Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5203. *Interior Finish in Hardwood.* F-L line of mouldings, etc.

Gumwood Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
6231. *Beautiful American Gumwood.* Booklet. Describes application of Gumwood for paneling and interior woodwork.

Hartmann-Sanders Co., Elston and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.

Jackson Lumber Co., Lockhart, Ala.
5771. *Builders Lumber.* Literature. Illus.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3815. *Post Everlasting.* 16 pp. Illus. Information on creosted yellow pine fence posts.
3816. *Sentinels of Service.* 32 pp. Creosoted yellow pine poles.

Maple Flooring Mfgs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors.*
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3936. *What You Can Do With Wide Face Flooring.* Folder.
3938. *Long Service From Short Lengths.* Folder. Gives suggestions on floors of Maple, Beech or Birch.
39312. *Grading Rules.* Booklet. 8 pp. Gives rules for Maple, Beech and Birch Flooring.

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
5901. *The Charm of Modern Oak.* Booklet. Tells of the Renaissance of Oak for woodwork finish.
5902. *The Charm of The Sovereign Wood.* 80 pp. 100 plates.

Southern Pine Association, New Orleans, La.
5921. *Literature.* Discusses value of Grade-Marked Lumber.

Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.

West Coast Lumber Trade Extension Bureau, 5562-E Stuart Bldg., Seattle, Wash.
6741. *Treatise on Douglas Fir.* Douglas Fir for scaffolding, for concrete form, structural timbers and many interior uses.

Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Development of Western Pine industry.

LUMBER, ASBESTOS—See Asbestos Products

MACHINES, BOOKKEEPING AND ADDING—See Bookkeeping Machines, also Adding Machines.

MAIL BOXES—See Built-In Features

MAILING LISTS

R. L. Polk & Co., 352 Polk Bldg., Detroit, Mich.
4341. *Polk's Reference Book.* Mailing List Catalog No. 55.

MANTELS—See Fireplace Furnishings.

MARBLE

Marietta Mfg. Co., 91 Brookside, Indianapolis, Ind.
7141. *Sani Onyx Vitreous Marble.* In six surface textures—Flame Glaze, Semi Matte, Matte, Tapestry, Polychrome and Embossed.

MARQUISES—See Metals

METALS AND METAL BUILDING SPECIALTIES

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* 24 pp.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6841. *Tru-Tye Steel Bridging.* Steel tension bridging holding without nails.

Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.

Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Brass Pipe containing Alpha crystals.

Copper & Brass Research Assn., 25 Broadway, New York.
5946. *Practical Brass Pipe Plumbing.* Hand-Book.
5947. *Brass Pipe Plumbing for Your Home.*
5945. *Side Tracking Lightning.* Shows annual loss from lightning and use of copper rods to save buildings.
5944. *Copper Flashings.* Hand-Book.
5948. *The Story of Copper.* Tells use of copper, brass and bronze through the ages.
5949. *Screens That Keep Them Out.* Copper and bronze screen-cloth.
59411. *Physical Properties of Copper.* Hand-Book for engineers.

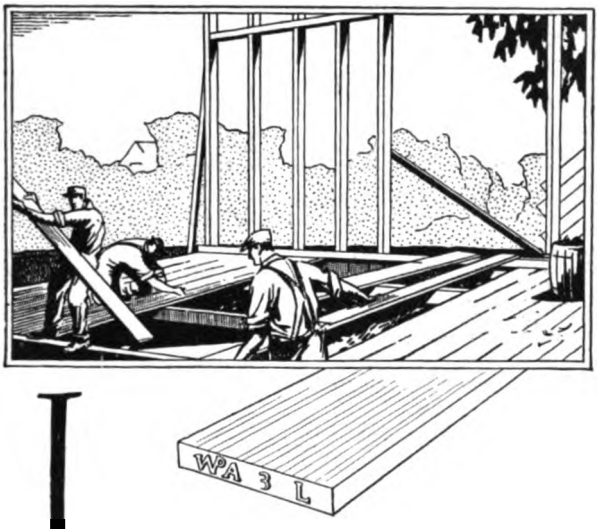
Donley Bros. Co., 12920 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.

Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing,* etc. Catalog. 224 pp. Illus.

General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.

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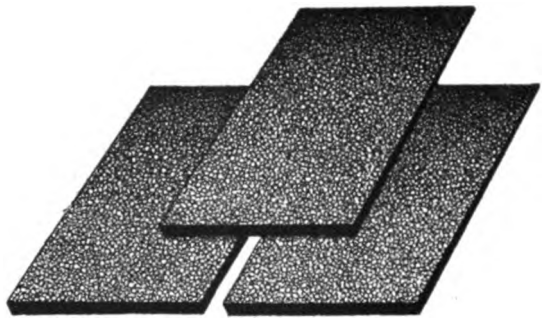
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Selected List of Manufacturers' Literature

(Continued from page 168)

F. D. Kees Mfg. Co., 20 High St., Beatrice, Neb.
6261. *Metal Co[illegible]or Wide, Colonial Siding.* Kees metal corners to give b[illegible]ed corner effect.
Mesker & Co., G[illegible] 30 Ingel St., Evansville, Ind.
6367. *Mesker Metal Ceilings.*
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No. 27.* 14 pp. Illus. Designs of invisible joint ceilings, individual field plates, cornices, etc.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.
Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Describes lead coated sheets, roofing, etc.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

MORTAR BOXES—See Concrete Equipment

MORTAR AND CEMENT COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
2596. *Combination Color Card.* Creosote Shingle Stain and Double Colors.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.
2735. *Something New in Stucco.* Folder. 8 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
65911. *Staybrite.* Dry and paste colors. Folder and color card.
C. K. Williams & Co., 636 N. 13th St., Easton, Pa.
6601. *Anchor Brand Mortar Colors and Cement Colors.* Folder.

MOTOR TRUCKS AND ACCESSORIES—See Trucks, Motor and Trucks, Motor-Supplies

NAILS, MASONRY—See Masonry Nails

NAILS, ROOFING—See Roofing

OIL BURNERS—See Heating Equipment

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*
6363. *White Way Posts.* 24 pp. Illus. Cast Iron Lamp Standards.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

ORNAMENTS
Jacobson Mantel & Ornament Co., 322 East 44th St., New York, N. Y.
6963. *Compo Ornaments for Application to Woodwork.* Take place of wood carving on mirror frames, mantel pieces, over mantel, etc.

PACKAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating, industrial paint, acid proof paint, battery paint.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
2596. *Combination Color Card.* Waterproof Collopakes.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
A. C. Horn Co., Long Island City, N. Y.
65912. *General Line.* Color cards and specifications.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Contains actual panels.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for dampproofing, waterproofing, enameling.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4782. *Science and Practice of Integral Waterproofing.* Illus. 33 pp. Contains specifications for waterproofing mass, concrete stucco and cement plaster coat.
4783. *Technical Pamphlet No. 8.* Booklet. 28 pp. Discusses concrete waterproofing.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
2596. *Combination Color Card.* Waterproof Collopakes.
A. C. Horn Co., Long Island City, N. Y.
6594. *Symentrex* and *Koncrex.* Color cards for each.

PAINTS, WATERPROOFING—See Waterproofing

PANELS—See Veneer, Wallboard, Panels, Wood

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of Alberene Stone.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PEBBLE DASH—See Stucco Dash

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.
Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Describes Alpha Brass pipe containing Alpha crystals.
Copper & Brass Research Assn., 25 Broadway, New York.
5946 *Practical Brass Pipe Plumbing.* Handbook.
5947. *Brass Pipe Plumbing for Your Home.*

PIPE, CONDUCTOR
Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofings.*
5944. *Copper Flashings.* Handbook.
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head zinc.*
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O. (See listings under Brick.)
Gowing, Frederick H., 101 Tremont St., Boston, Mass.
7081. *Building Plans for Modern Homes.* 224 pp. Price, $3.00.
7082. *Bungalows.* 150 designs. Price, $1.50
Grieme's Arch. Service Bureau, Engineering Bldg., Cleveland.
7091. *Plan Books and Service.* Offer includes three portfolios. Price $5.00.
Home Owners' Service Inst., Inc., 441 Lexington Ave., New York.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price 10 cents.
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

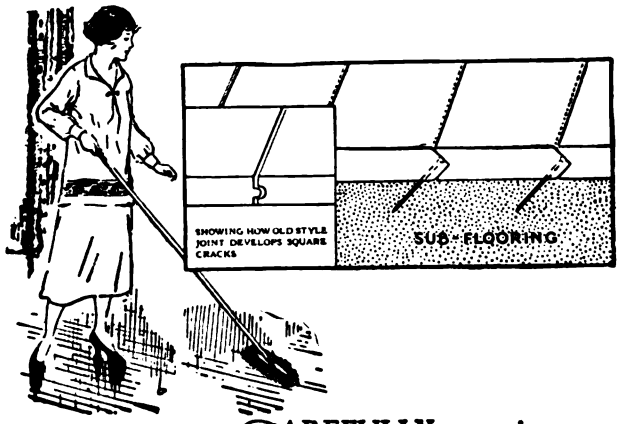
PLASTERING MATERIAL—See Lime, also Fibre

PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing in diagram and information on service and guarantee.
Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet.
Crane Co., 836 S. Michigan Ave. Chicago.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kaustine Co., Inc., Buffalo, N. Y.
6241. *Kaustine Super-Septic Tanks.* Describes Armco Iron Septic Tanks. Include plan and installation advice.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.
Kohler Co., Kohler, Wisc.
6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.

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CROMAR
FACTORY FINISHED
OAK FLOORING

Use the Patented CLEANABLE GROOVE of *CROMAR* as a Strong Sales Argument to Housekeepers



CAREFULLY examine a CROMAR floor and you will see tiny, rounded grooves between the strips. They are about 1/40" deep. They have a smooth, varnished surface. That makes them easy to clean. Ask any housekeeper whether she objects to the dirt that packs between the strips of her ordinary hardwood floor—after it has slightly dried out—and you will learn something of the value of this CROMAR feature. Shallow grooves, rounded grooves, tight-at-bottom, *finished* grooves are cleanable; open grained, unfinished, SQUARE CRACKS are not. That's why the CROMAR groove is patented.

***The CROMAR* Ten Points of Prime Importance**

1. Factory finished—like furniture.
2. Finish stands hardest wear.
3. Coating four sides protects against moisture.
4. V-type tongue and groove easy to lay.
5. Beveled tongue prevents damage in nailing.
6. Cleanable surface groove.
7. Convenient and damage-proof bundle.
8. Laying contracts need not be sublet.
9. Promotes extra sales for occupied houses.
10. Laid and used the same day.

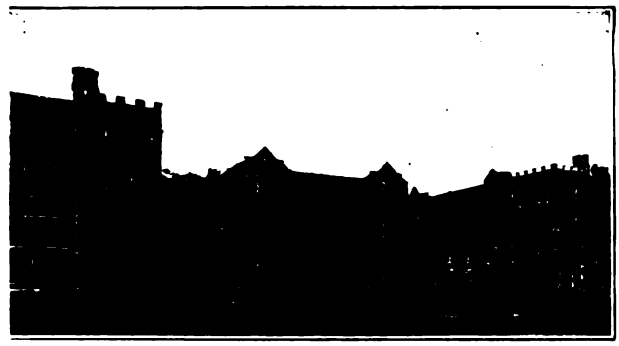


If you have a copy of the "Home Builders Catalog", refer to our Pages 184 and 185 for further details.

Write us for free samples and complete literature concerning the manufacture, the selling and laying of the only factory finished hardwood flooring on the market.

The Crooks-Dittmar Company
Williamsport, Pa.

CROMAR
FACTORY FINISHED
OAK FLOORING
LAID AND USED THE SAME DAY



TOWER COURT APARTMENTS, EVANSTON, ILL.
Sound-Deadened with Cabot's Quilt
Anthony Quilsow, Architect, Chicago

Sound-Proof Apartment Houses

Modern apartments must be proof against Jazz, Loud-Speakers, Phonographs and kindred noises, Tenants will not tolerate noisy apartments.

Cabot's Deadening "Quilt"

has made thousands of apartments quiet. It has a record of over thirty years' successful use.

Quilt is practical; it suits any conditions. It is

FLEXIBLE: Easily applied anywhere. Fits into corners or around pipes and projections.

FIRE-RESISTANT: It will not burn. A genuine fire protection.

PERMANENT: Lasts as long as the house.

SANITARY: Will not rot or harbor insects or vermin.



Send for complete catalog on sound-deadening, giving drawings, photographs and specifications for construction.

Samuel Cabot

Incorporated
Manufacturing Chemists
Boston, Mass.

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5000 Bloomingdale Avenue, Chicago
Philadelphia Portland, Ore. Los Angeles
San Francisco Minneapolis

Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double-White, Double Colors, Waterproof Collopakes, etc.

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Selected List of Manufacturers' Literature

(Continued from page 170)

Pemberthy Injecter Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.

4283. *Pemberthy Injectors.* Series of folders. Illus. Describe various types and models.

4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.

4285. *Safeguard Water Gage.* 4 pp. Illus.

4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.

4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

Republic Brass Co., Cleveland, Ohio.

6661. *Republic Two-Way Service Control.* Folder. Describes control lever of shower.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.

5951. *"Standard" Plumbing Fixtures for the Home.* Catalog. 64 pp. Describes fixtures for bathrooms, kitchens, laundries.

5952. *The Romance of "Standard" Advertising.* Booklet in colors.

5957. *"Standard" Double Faucets.* Folder in colors. Describes double nickeled brass faucets, swinging spout, etc.

Stanley Plumbing Supply Co., 932 Spring Garden St., Phila.

5991. *General Catalog.* Takes up complete line of plumbing and Heating supplies.

PORCHES

Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.

5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.

PUMPS

Dayton Pump & Mfg. Co., Dayton, O.

2901. *Catalog.* Describes their pumps for light and heavy work.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.

5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.

3051. *F-M Home Water Plants.* Presents complete details.

3052. *Water Service Library.* Series of 8 booklets.

Monarch Eng. Co., 244 East 1st St., Dayton, Ohio.

7161. *General Catalog.* Features two pole automatic switch.

Myers Bro. Co., F. E., Ashland, O.

4071. *General Catalog.* No. 58. 414 pp. Illus.

Novo Engine Co., Lansing, Mich.

4222. *Novo pumps.*

PYROBAR GYPSUM TILE

United States Gypsum Co., 205 W. Monroe St., Chicago.

4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS

American Radiator Co., 40 W. 40th St., New York.

2164. *"Corto, the Radiator Classic."* 16 pp. Illus.

2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus.

United States Radiator Corp., Detroit, Mich.

4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 28 pp.

Burnham Boiler Corp., Irvington, N. Y.

2571. *Letters To and Fro.* Booklet. Treats of the heating question.

RADIATOR CABINETS

Hart & Cooley Co., New Britain, Conn.

3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.

4803. *T. & B. Radiator Cabinets.* Describes all-steel cabinet, insulated seat and humidifier.

RADIO PRODUCTS

Pole & Tube Works, Inc., Newark, N. J.

4331. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment

American Stove Co., Lorain, O.

2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*

2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*

2194. *Catalog No. 97.* 24 pp. Direct action coal ranges.

2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.

Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.

4231 *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Standard Gas Equipment Corp., 18 E. 41st St., New York.

4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.

4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.

4623. *The Vulcan Bulletin.* Monthly house organ.

4624. *How Kitchen Space Was Saved in Planning.*

4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.

Thatcher Co., 39 St. Francis St., Newark, N. J.

4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS

Herrick Refrigerator Co., Waterloo, Ia.

3371. *Refrigerators.* 56 pp. Describes various types.

REGISTERS

Hart & Cooley Co., Inc., New Britain, Conn.

3302. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.

3302. *Registers.* Catalog No. 24. Illus. Contains complete list.

Majestic Company, Huntington, Ind.

3904. *Majestic Line.* Malleable Iron and Copper Steel.

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.

4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF CONSTRUCTION—See Roof Trusses.

ROOFING MACHINERY

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.

2971. *Duntile.* Illus. Manufacture of building blocks and tile.

2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

ROOFING MATERIALS

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.

2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.

2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.

2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.

2145. *Eternit Asbestos Lumber.* 12 pp. folder.

2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.

2147. *Instructions for Applying Eternit Asbestos Shingles.*

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.

2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.

2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.

6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating and asphalt putty.

6383. *They Weather All Weather.* Four colors. 24 pp. Latite Shingles and Genasco Sealbac shingles.

6384. *Locked On and New Roofs Over Old.* Booklets. 16 pp. Illus.

6385. *Sealbac Shingle Booklet.* 16 pp. Illus.

6386. *Look under the Surface!* 6 pp. Illus.

6387. *Phoenix Ready Roofing.* 6 pp. Illus.

6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*

Beaver Products Co., Inc., Buffalo, N. Y.

2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.

2402. *Literature.* Repair and remodeling work on time payment.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.

2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.

2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.

2453 *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.

2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.

2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.

Copper & Brass Research Assn., 25 Broadway, New York.

59412. *Copper Roofings.*

5943. *Real Roofings.*

Edwards Manufacturing Co., Cincinnati, O.

2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus.

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.

35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.

35515. *Roofing and Building Material Booklet.*

Keystone Roofing Mfg. Co., York, Pa.

3661. *The Magic Touch of Preston Shingles.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle.

Malleable Iron Fittings Co., Branford, Conn.

5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.

4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*

4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.

4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.

4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

New Jersey Zinc Co., 160 Front St., New York.

4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details and data.

4157. *The Roof That Is Ever New.* Folder. Illustrated.

Richardson Co., Lockland, Cincinnati, Ohio.

4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.

4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.

4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.

4414. *What Color for the Roof?* Illus. booklet. 19 pp. Takes up uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.

4483. *Roof-Coatings.* Folders: "Adding Years of Service," "A Roof in Liquid Form," "The Stop-Leak Cement."

4484. *Roll-Roofings.* Folder: "For Permanence."

4485. *Asphalt Shingles.* Folders: "Inexpensive Way to Add Value, Beauty and Protection to Your Home," "Ruberoid 4-Tone Hex-aganol Strips," "The Re-Roofing Shingle," "Harmony of Color," "Ruberoid Octab Strip-Shingles," "Ruberoid Square-Tab Strip-Shingles."

4486. *Asbestos Slates.* Folder.

4487. *Reasons for Handling Ruberoid.* Catalog.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.

4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.

4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.

4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.

4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.

4962. *Making Old Houses Into Charming Homes.* Colored.

4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.

5032. *Descriptive literature.*

Wheeling Metal & Mfg. Co., Wheeling, Va.

5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.

3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

Geo. L. Mesker & Co., Evansville, Ind.

6368. *Standard Steel Bow String Roof Trusses.*

RULES—See Drafting and Surveying

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.

29512. *Donley Salamanders.* Leaflet. Illus.

SAND

Jos. Murray & Co., Inc., 257-263 Avenue C, New York.

7001. *White Sand.* Shipped anywheres.

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"ANTI-HYDRO" Keeps a River Out of This Power House

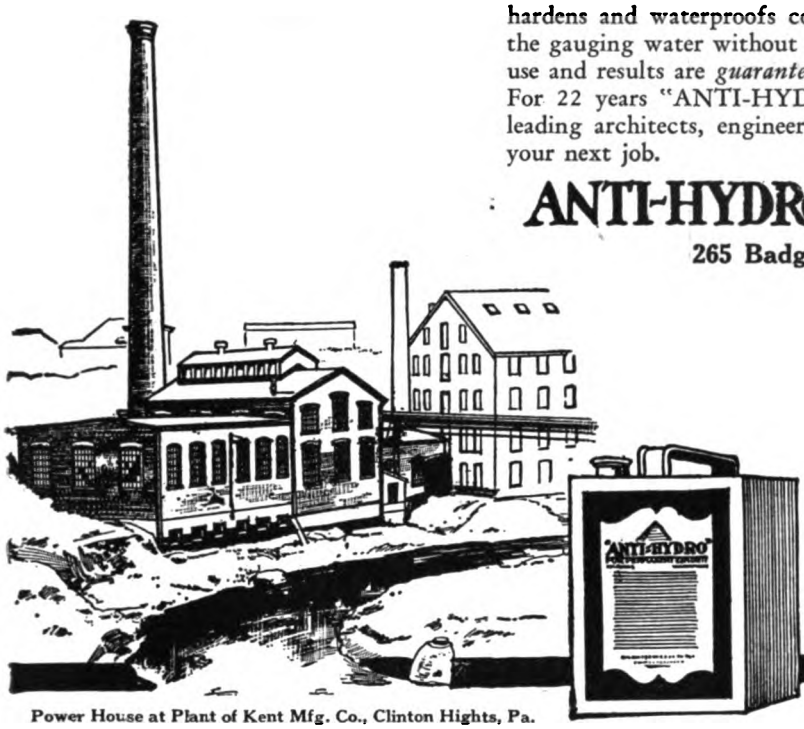
THE concrete foundations of this building are below the water level of the river which runs beside it. The basement and boiler room are always dry, however, because the concrete is *permanently* waterproofed with "ANTI-HYDRO."

"ANTI-HYDRO" is an easy-to-use liquid integral compound that both hardens and waterproofs concrete in *one operation*. It mixes readily with the gauging water without the aid of skilled labor. It is very economical to use and results are *guaranteed* permanent.

For 22 years "ANTI-HYDRO" has been repeatedly specified and used by leading architects, engineers and contractors the country over. Use it on your next job.

ANTI-HYDRO WATERPROOFING Co.

265 Badger Ave., NEWARK, N. J.



Power House at Plant of Kent Mfg. Co., Clinton Hights, Pa.



Frank E. Hahn, Architect. B. Bornstein, Contractor.

WEATHERBEST Stained Shingles Assure Satisfaction

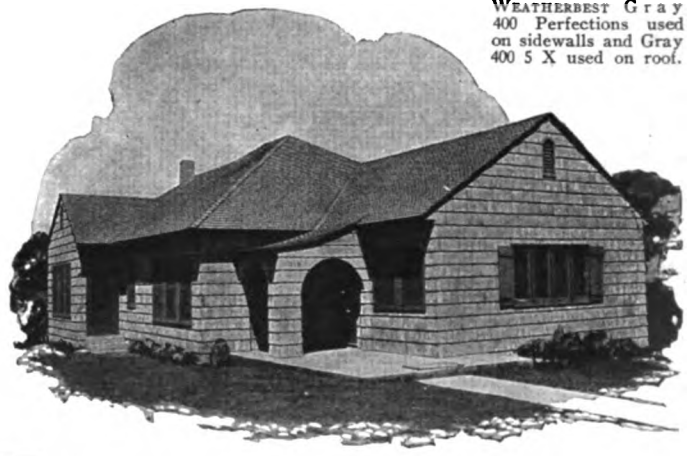
Modern contractors are using WEATHERBEST Stained Shingles for roofs and sidewalls on houses that they themselves finance because such houses are ready for occupancy earlier—no painting delays and they sell easier and quicker.

Whether you are remodeling an old home or building a new one you can save time and labor in using WEATHERBEST Stained Shingles. They are made only of 100% edge grain Red Cedar shingles, preserved by our WEATHERBEST process of carrying color pigments and preservatives into the pores of each shingle.

Write for set of color photogravures showing different WEATHERBEST *homes in a variety of treatments. Also ask for color samples and book on "Making Old Houses Into Charming Homes."*

WEATHERBEST STAINED SHINGLE CO., INC.
210 MAIN STREET NORTH TONAWANDA, N. Y.
Western Plant: St. Paul, Minn.
Distributing Warehouses in Leading Centers

Home of J. M. McMillin, Dallas, Texas. WEATHERBEST Gray 400 Perfections used on sidewalls and Gray 400 5 X used on roof.





Weatherbest STAINED SHINGLES FOR ROOFS AND SIDE-WALLS

WEATHERBEST STAINED SHINGLE CO., Inc.,
210 Main Street, North Tonawanda, N. Y.

Please send without cost
- ☐ Booklet "Making Old Houses Into Charming Homes"
- ☐ Portfolio of Color Photogravures.
- ☐ Book on Thatch Construction

Name .....

Address .....

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Selected List of Manufacturers' Literature

(Continued from page 172)

SANDERS

American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago, Ill.
2341. *Electric Portable Sander.* Bulletin 8E. Illus.

Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.

Lakel Mfg. Co., Jenkintown, Pa.
7131. *Surface Finish.* For A. C. or D. C. current.

Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.
3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus.
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.
4113. *National Floor Surfacing Machinery.* Cat. 26 pp. Illus.
4114. *How and Where to Use Oak Floors.* 16 pp.
4115. *When You Have Scraped Along.* 8 pp.

Reid-Way Co., Cedar Rapids, Ia.
7191. *Reid-Way Sanders.* Used like a plane or inverted for jointing.

Wayvell Chappell & Co., 42 Jackson St., Waukegan, Ill.
6921. *Year to Pay Plan.* Automatic Floor Surfacing Machine.

SANITAS—See Wall Covering

SASH—See Windows

SASH BALANCES—See Hardware, Window

SASH CORDS

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus.
4502. *Catalog.* Includes samples of sash cord.
4503. *Sash Cord—Information and Specifications.*
4504. *Architectural Window Details.*

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

SCREEN MANUFACTURERS' MACHINERY

J. B. Crofoot Co., P. O. Box 783, Chicago, Ill.
6391. *Crofoot Screen Tacker.* Describes stapling machine that drives 77 staples with one loading. Deals with trial offer.

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.
3942. *Screens for Profit.* Folder. 4 pp. Illus.

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Copper & Brass Research Assn., 25 Broadway, New York.
5949. *Screens That Keep Them Out.* Describes screen-cloth of brass and copper.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures, etc.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEPTIC TANKS—See Plumbing Equipment

SEWAGE DISPOSAL—See Plumbing Equipment

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHEET METAL PRODUCTS—See Metals

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SINKS—See Kitchen Sinks, also Plumbing Equipment, also Bathroom Fixtures.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.

Republic Brass Co., Cleveland, Ohio.
6661. *Folder Two-Way Service Control.* Folder. Describes control lever of shower

White Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich. New York Office and Display. Room 409, Columbia Bank Building, 507-5th Ave. Mr. Harry Parker in charge.
5342. *White Steel Shower Curtain Poles.*

SKYLIGHTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6369. *Mesker Skylights.*

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated literature* on stair treads of Alberene Stone.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

STAIRWAYS, MOVABLE

Bessler Disappearing Stairway Co., Akron, O., or 220 E. 41st St., New York.
2432. *Bulletin. Illus.* Price List.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

Marschke Co., 301 Pioneer Bldg., St. Paul, Minn.
6701. *Marschke Stair.* Describes balanced folding stair.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Catalog.* Mesker Store Fronts. 36 pp. Cuts and details.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Hghts., Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus.

Elastica—see listing under U. S. Material Co.

Lehigh Portland Cement Co., Allentown, Pa.
3774. 28*Better Homes.* Lehigh Cement Small House Competition.
3772. *Permanent Satisfaction in Your Building.* Illus. Book.
3773. *The Lehigh Magazine.* New House Monthly.
3774. 28 *Better Homes.* Lehigh Cement Small House Competition.

Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

U. S. Materials Co., Chicago, Ill.
6071. *Elastica, the Waterproofed Stucco.* Describes product manufactured by this company in Chicago, the American Materials Co. in New York, the Art Stucco Materials Co. in Detroit, and Northwest Materials Co. in St. Paul.

STUCCO AND PLASTER BASES

American Reenforced Paper Co., Attleboro, Mass
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two of Asphaltum, two of Java sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6389. *Genasco Stucco Base.* 16 pp. Illus. Stucco Base for use with Portland Cement or Magnesite Stucco.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

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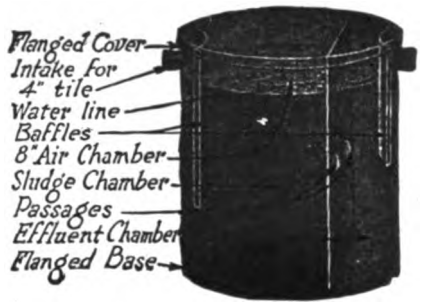
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Selected List of Manufacturers' Literature

(Continued from page 174)

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
24613. *Looking Behind the Stucco.* Booklet. Illus. Story of Bishopric Base, reinforcing background for stucco and plaster walls.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.
2482. *Bostwick Economy.* Booklet. 30 pp. Non-technical discussion of Bostwick products.

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Celotex Company, 645 N. Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex*, and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6822. *Literature and Samples.*

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

National Steel Fabric Co., 707 Union Trust Bldg., Pittsburgh, Pa.
7171. 1926-1927 *Overcoat Plan.* Describes re-inforced Stucco Overcoating.

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

STUCCO DASH

C. K. Williams & Co., Easton, Pa.
6602. *Verdolite Stucco Dash.*

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TAPES—See Tools

TELEPHONES—See also Electrical Equipment

Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42d St., New York.
5001. *Inter-Phone Systems.* Descriptive literature.
5002. 1926 *Catalog.* For electrical contractors.

THERMOSTATS—See Heating Equipment

TILES, FLOOR AND WALL

Lloyd Floor and Wall Tile Co., P. O. Box 5064K, Kansas City, Mo.
5881. *Tile Catalog.* Describes Ceramic Mosaic Floor Tiles, Glazed Wall Tiles and tile trimmings sold direct.

TILE MANUFACTURE

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

Mortarless Tile Machine Co., 21-22 Carrillo Bldg., Santa Barbara, Calif.
6531. *Build with Interlocking Concrete Tile.* Describes machine, gives details and typical installations. 12 pp. Illus.

TILE, STEEL

General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TIRES

Kelly-Springfield Tire Co., 250 West 57th St., New York, N. Y.
6901. *Kelly-Springfield Truck Tires.* Tires for standard sizes.

TOILET INCINERATORS—See Incinerators

TOOLS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.

Empire Level Mfg. Co., 313 1st Ave., Milwaukee, Wis.
6271. *Empire Levels.* Patented interchangeable vial case.

Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.

Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.

Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Chency Hammers and Prentiss Vises.*

Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4425. *Woodworking Vises and Manual Training Benches.*

Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524. *Sargent Planes.* Catalog. 64 pp. Illus.

Starrett Co., The L. S., Athol, Mass.
5981. *Catalog No. 23 "P".* Describes Stainless Steel Tape.
5982. *Starrett's Stainless Steel Tapes.*

Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.

White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, MARKING—See Marking Devices

TOWEL RACKS—See Bathroom Fixtures

TRAPS—Steam and Radiator

Johns-Manville, Inc., 292 Madison Ave., New York.
35316. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRESTLES—See Scaffolding

TRUCKS—MOTOR

Chevrolet Motor Co., Detroit, Mich.
6091. *One Ton Truck Chassis.* Time payment plan operated through dealers.

Graham Brothers, Detroit, Mich.
6451. *Literature.* Describes Graham Brothers' trucks sold by Dodge Brothers dealers.

International Harvester Company of America, Inc., 6066 S. Michigan Blvd., Chicago.
68711. *International Harvester Trucks.* High speed and heavy duty types.

TRUCKS, MOTOR—SUPPLIES

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.

TRUCKS, MOTOR—TIRES—See Tires

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment.

Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing-in diagram and information on service plans and guarantee.

Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus.

VAULT LIGHTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus

VENEER AND VENEERING

Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2542. *Breezo Booklet.* Form 2320. Describes fan unit for domestic use. Installed in kitchen window.
2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.

Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.

Hart & Cooley Co., Inc., New Britain, Conn.
3304. *H & C Cold or Warm Air Ventilators.*

Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.

Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

VISES

Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Prentiss Vises and Cheney Hammers.* Described in literature.

WALLBOARD

Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Uses and methods of handling *Beaver Board.*

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6823. *Literature and Samples.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.

WALL CONSTRUCTION—See Building Construction

WALL COVERING

A. C. Horn Co., Long Island City, N. Y.
65913. *Tx-Crete.* Texturing material. Folder. For walls and mural decorations.

Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WALLPAPER

Wallpaper Mfrs. Assn., 461 8th Ave., New York.
4901. *Walls and Their Decorations.* Directs attention of builders to wallpaper as an interior decorating medium.
4902. *Faster Sales and Quicker Rentals.* Is concerned with the problem of the builder in merchandising houses.

WASTE DESTROYERS—See Incinerators

WATER GAUGES—See Plumbing Equipment

WATER HEATING SYSTEMS

Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.*

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Selected List of Manufacturers' Literature

(Continued from page 176)

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.

Humphrey Co., Kalamazoo, Mich.
6031. *Humphrey Automatic Gas Water Heaters.* Literature. Covers entire line.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.

Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Range Boilers.* Literature. Galvanized and copper types.
5892. *Storage Systems.* Literature. Describes automatic, gas-fired types.

Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.
6861. *Anti-Hydro Formula.* For hardening, waterproofing, and damproofing concrete, stucco and cement mortar.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper*

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers dampproofing, clear brick waterproofing, and clear cement waterproofing.
2596. *Combination Color Card.* Waterproof Collopakes.

General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus.

A. C. Horn Co., Long Island City, N. Y.
6598. *A.I.A. File Folder.* Data on dampproofing products.

Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus catalog. Specifications for dampproofing, waterproofing, enameling.

Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit.
4781. *Spread Sunshine Inside.* Book. Describes methods for light saving through use of light-reflecting enamels.

WATER SOFTENERS—See Water Systems

WATER STORAGE—See Water Heating; also Water Systems.

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Fort Wayne Engineering Co., Fort Wayne, Ind.
6341. *Paul Water Systems.* Describes sies for various types of wells and cistems.
6342. *Paul Soft Water Generator.* Describes high capacity, small sized softening outfit.
6343. *The Old Oaken Bucket Up-to-Date.* Booklet. Details for builders, dealers and home owners.

Hardin-Lavin Co., 121-131 W. Pershing Rd., Chicago.
291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Monarch Eng. Co., 244 E. 1st St., Dayton, Ohio.
7161. *General Catalog.* Monarch Water Softener with a single valve.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.

Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.

Chamberlain Metal Weatherstrip Co., Inc., Detroit, Mich.
5551. *Chamberlin Metal Weatherstrip Details.* Catalog. Illustrated.

Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.

Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.

Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.

Malla, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

Master-Metal Strip Service, 3945 W. Lake St., Chicago.
7221. *Metal Weatherstrips.* Information for builders and dealers.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*

Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2873. *Standardized Steel Casements.* Catalog. 2-26. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.

Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2021. *Fenestra Steel Casement Windows.* 24 pp. Illus. New edition. Includes photographs and detail drawings.
2022. *Fenestra Basement Windows.* Booklet. 16 pp.
2023. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2024. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2025. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.

Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Takes up complete line Factrolite Wire Glass and Pentecor Wire Glass.
4013 *Pentecor.* Combination rib and prism wire glass.
4012. *Factrolite.* Describes this type of diffusing wire glass.

National Steel Products Co., 6900 S. Water St., St. Louis, Mo.
6761. *National Basement, Factory and Garage Windows.* Standard types of steel in sizes for all purposes.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 63 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD—See Frames, Door and Windows

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.

American Saw Mill Mchy. Co., 61 Main St., Hackettstown N. J.
2171. *Catalog No.* 21. Describes circular saws of all sizes.
2172. *Contractors' Bulletin No.* 82.
2173. *General Catalog No.* 25. Illus. 192 pp.

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. *Catalog*, 850-54. Describes the *Buffalo* Woodworker.

Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.

Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.

Crowe Mfg. Co., Cincinnati, O.
7061. *Crowe Safety Saw.* Portable saw with safety guard for use on lumber.

DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.

Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 20 pp. Describes model No. 8, 9 and 12.

Michel Electric Hand Saw Co., 1801 Berenice Ave., Chicago.
6161. *Circular R-3.* Describes applications of *Skilsaw*, a portable electric hand saw.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.

Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size,
4582. *Booklet.* 12 pp. Illus. Gives additional information.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.
7022. *Wodack Portable Electric Drills and Grinders.*

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials



"Where's your combination square"

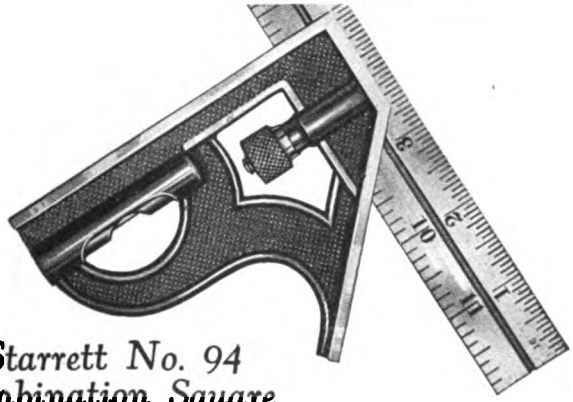
Any man that's ever worked with a Starrett Combination Square can't see how it's possible for anybody else to try to get along without one.



And they are—those No. 94's—just about the most useful tool in the chest. They replace seven separate tools—square, miter, height, depth and marking gages, rule, level and plumb—and they'll do the work of each just a hair better than the original tool would do it.

If you haven't a Starrett Combination Square in your chest now, your nearest good hardware dealer has one that he'll part with—for a consideration. And it's worth it. It's also worth while writing us for a free copy of Catalog No. 23 "P"

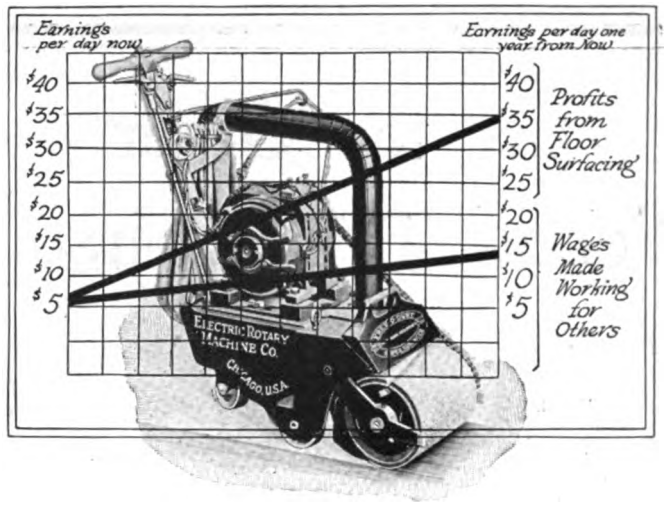
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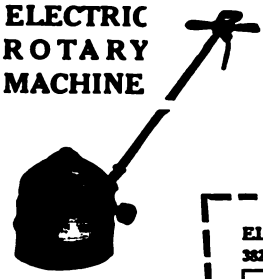
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The FREE-O-DUST Super Surfacer picks up all the dust on the forward movement of the machine, as well as the backward, and keeps the air clear from dust at all times. It sands right up to the baseboard without an inconvenient side drum. A silent high-speed chain eliminates vibration.

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Manufacturers of Floor Surfacing Machines for over 20 years.

For sanding wood floors where an exceptionally high finish is required—also for surfacing and polishing marble, terazzo, etc., waxing and polishing and for scrubbing. A different attachment for each operation.

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- ☐ Please send me General Booklet giving full information about the Electric Rotary Machine.
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BUT NOW wherever you are, there is a Skinner Bros. Steam Coil Heater in the vicinity.

It has proved its efficiency and its capacity to heat industrial buildings to a comfortable temperature in the most terrific weather. It has also shown itself to be incomparable for eliminating steam and preventing drippage in plants troubled with the steam and vapor nuisance.

IF you are not familiar with the economy in installation and maintenance of Skinner Bros. Steam Coil Heaters—

IF you don't know about the constant satisfaction the heaters universally give under the most trying circumstances—

Write for a list of factories, mills, industrial buildings in your vicinity that are Skinner equipped or request one of our engineers to explain how these heaters excel. There will be no obligation.

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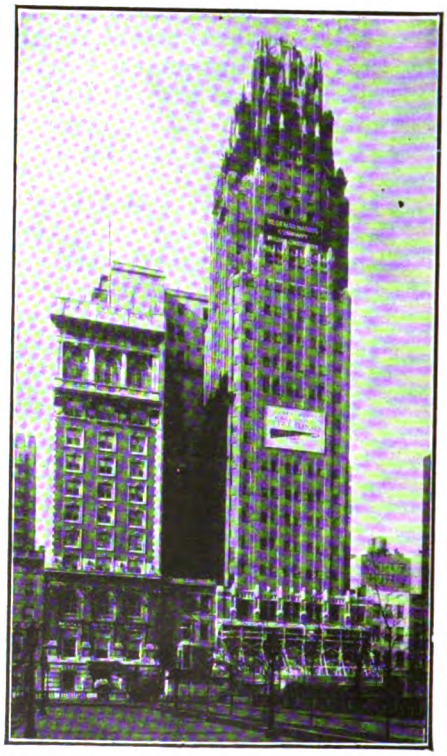
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Building Better Fireplaces



How to Deal with Fireplace Down-Draft

IN the illustration above the mason is putting the finishing touches on the stone facing. Some builders now test the fireplace for smoking before placing the mantel.

Down-draft, found in all chimneys due to compensation for up-draft from fire, winds or outside and inside temperature adjustment, may cause a fireplace to smoke. However, if the builder has used a Donley Damper with its smooth metal throat, has installed it according to instructions accompanying each damper, the fireplace won't smoke. An exception may be due to a chimney lower than roof ridge or large trees near chimney.

The question of down-draft is thoroughly discussed in the Donley Book of Fireplaces. This book contains fireplace plans, details, designs and descriptions of Donley Fireplace equipment.

Send for a complimentary copy of the Book of Fireplaces. Donley Catalog also sent if requested.

The Donley Brothers Co.
13920 Miles Avenue • • Cleveland, Ohio

DONLEY DEVICES
Complete the Home



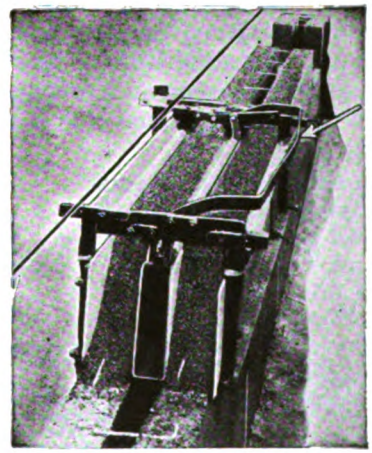


Bill Says: You CAN Work All Winter

WITH a Wallbuilder you can build concrete walls at temperatures below the minimum for *all* other types of masonry work. The secret is this: In the semi-dry Wallbuilder mix, there is just one-half the water used in slop concrete and a fraction of that used for mortar. ¶ With a Wallbuilder you can enclose your building before bad weather and then finish it in record time; the dead air space* cuts out furring, lathing and scratch coat plaster. Start the job now and have it ready for Spring occupancy.

**A 2½" continuous air space between double concrete walls.*

Van Guilder System Concrete Bldg.
15 East 40th Street New York



From Florida

"Replying to your favor of Sept. 21st, relative to the buildings constructed where we used Van Guilder builders, beg to advise that THEY STOOD THE STORM AND NO DAMAGE DONE WHATSOEVER."

Kramer & Paterson Co.
Designers and Builders
114 Coral Way
CORAL GABLES
FLORIDA

ASK YOUR DEALER. He can get for you detailed information on the particular job in mind.

Tell me what the VAN GUILDER WALLBUILDER can do for me. Local costs are—Cement.....per bbl.
Sand.....per cu. yd. Aggregate.....per cu. yd.
Labor.....per hr.
Name .....
My business is.....
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Sheet Metal Work that Resists Rust!



The destructive enemy of sheet metal is *rust*. It is successfully combated by the use of protective coatings, or by scientific alloying to resist corrosion. Well made steel alloyed with Copper will last longest. Insist upon

KEYSTONE

Rust-Resisting Copper Steel

Sheets

AND ROOFING TIN PLATES



Add safety to satisfaction, with full protection from fire, lightning, and weather. Keystone Copper Steel gives superior service for roofing, siding, gutters, spouting, flashings, metal lath, tanks, culverts, and all uses to which sheet metal is adapted. Look for the Keystone included in brands. We manufacture American Bessemer, American Open Hearth, and Keystone Copper Steel Sheets and Tin Plates for every requirement of particular architects, builders, and property owners.

Black Sheets for all purposes
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APOLLO-KEYSTONE Galvanized Sheets give increased service and added permanence to your building construction. These are unquestionably the highest quality sheets produced for galvanized sheet metal work.

KEYSTONE COPPER STEEL Roofing Tin Plates make clean, safe, attractive and satisfactory roofs. Supplied in grades up to 40 pounds coating—specially adapted to residences and public buildings. Metal roofs may be painted to harmonize with the color scheme of the building—an important feature which is often overlooked. Keystone quality products are sold by leading metal merchants, and are used by first-class roofers and sheet metal workers. Write for interesting booklets.

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A Prominent Contractor Builds

and see what flooring he chose

FRED R. JOHNSON, prominent contractor in Los Angeles, has built for himself, what is considered the most beautiful Spanish home in Beverly Hills.

To gain such prestige, every detail of his house must be in harmony. For his floors, he turned to the leading lumber dealer, who advised "Perfection."

From past experience they have found that this well-known brand has a beauty of grain and texture that takes a superb finish. It lays beautifully and retains this same original beauty even after generations of use.

Fortunately, the same brand of oak flooring that is so highly prized by builders of the more expensive homes, is within the means of every home builder. "Perfection" costs no more than a number of other brands.

There's a size and grade of "Perfection" Brand Oak Flooring for every type of structure, new or old. For full information write today.

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'PERFECTION'

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Will Sell Your "Hard Prospects"

You always have at least one man on your string of prospects who is hard to start. His excuses for not signing up with you usually sound like this: "I haven't any plans," or "I'm afraid it will cost too much money."

You can knock both of those excuses flat by submitting to him a set of designs furnished you *free of charge* by our staff of building design experts.

Not only do we furnish you with designs, but also accurate estimates on the cost of steel and iron work entering into the construction of the building.

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Our service has landed contractors thousands of "hard prospects."

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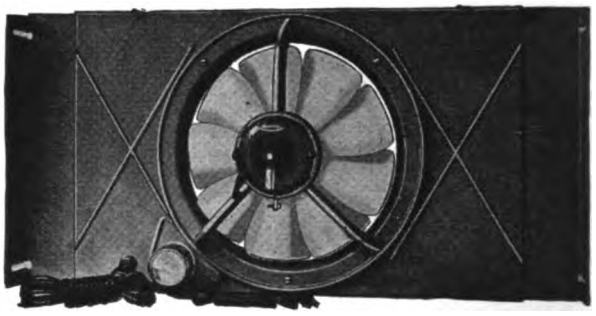
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The Deciding Factor

A Buffalo Breezo installed in the kitchen or smoking room will give you an edge on competition. Health and comfort mean much to the prospective buyer, and it's easy to demonstrate how much Buffalo Breezo contributes to these.

Effectively removes kitchen odors, smoke and stuffiness. Promotes healthful ventilation without dangerous drafts.



Five Features of Breezo You'll Appreciate

1. Attractive appearance of both fan and decorative panel.
2. Silent running—motor is totally enclosed and guarded against vibration.
3. Easy to install—when mounted in metal panel it requires only 4 screws for installation—can be quickly changed from one window to another as desired.
4. Simple to operate—pull switch. Window can be closed in front of fan when not in use.
5. Large capacity—high efficiency —low operating cost.

"Buffalo" Breezo
"Makes the difference"

Buffalo Forge Co.
476 Broadway Buffalo, N. Y.

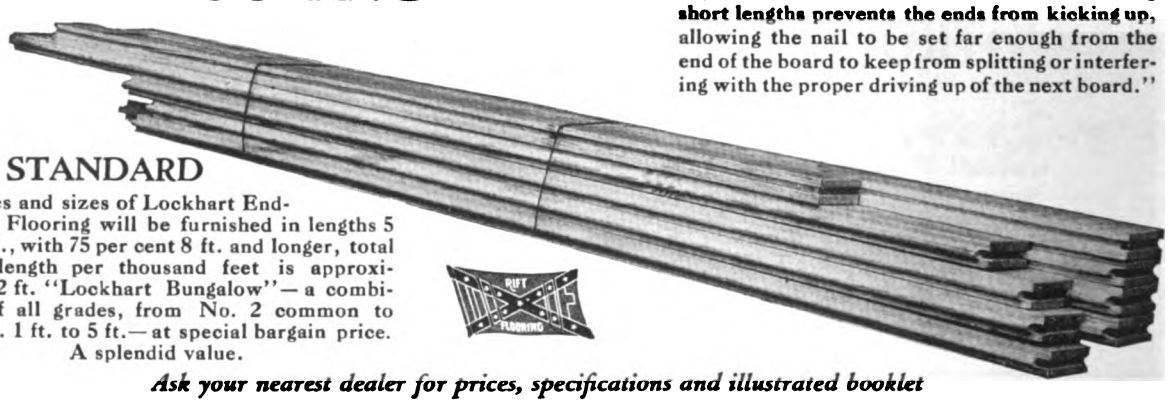
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Canadian Blower & Forge Co., Ltd.
Kitchener, Ont.

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"We find the End-Matched of quite a decided benefit to us as against the usual butted-end yellow pine flooring. There is a decided saving in the use of end-matched, etc."

"Received car containing some "A" grade end-matched flooring which was shipped by the Jackson Lumber Company. This is by far the prettiest flooring we have ever had. It would seem very difficult to make flooring superior to this."

"The Jackson Lumber Company's End-Matched stock comes more uniformly manufactured than any we have been able to secure. End-Matching short lengths prevents the ends from kicking up, allowing the nail to be set far enough from the end of the board to keep from splitting or interfering with the proper driving up of the next board."



NEW STANDARD

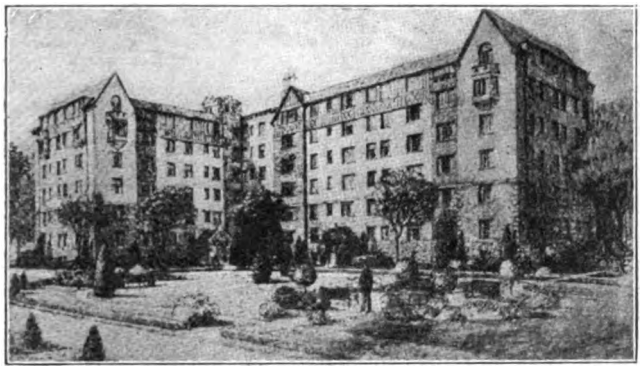
All grades and sizes of Lockhart End-Matched Flooring will be furnished in lengths 5 ft. to 16 ft., with 75 per cent 8 ft. and longer, total average length per thousand feet is approximately 12 ft. "Lockhart Bungalow"—a combination of all grades, from No. 2 common to B. & Btr. 1 ft. to 5 ft.—at special bargain price. A splendid value.

Ask your nearest dealer for prices, specifications and illustrated booklet

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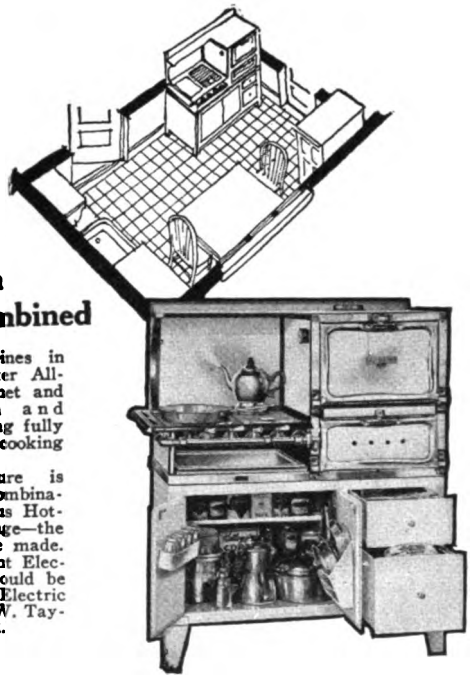
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36 Kab-Ranges for the Locust Arms Apts.

Because Kab-Range saves costly space, because it saves time and steps for the housewife and makes for better order in her kitchen—it is the choice of many successful builders and a recognized aid in renting apartments. The Locust Arms, at New Rochelle, N. Y., is one of many installations made this year.



Range and Kitchen Cabinet Combined

Kab-Range combines in one unit the Packer All-Steel Kitchen Cabinet and Rapid-Fire Oven and Range, cabinet being fully insulated from cooking heat.

Kab-Range feature is also available in combination with the famous Hotpoint Electric Range—the finest electric range made. Inquiries for Hotpoint Electric Kab-Ranges should be directed to Edison Electric Appliance Co., 5600 W. Taylor St., Chicago, Ill.

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"..Very convenient as they avoid the necessity of building and tearing down and they avoid the damage and annoyance of nails, etc., besides saving considerable in lumber. Check enclosed speaks for itself."

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Drexel Hill, Pa.

"Check Enclosed Speaks For Itself"

Actions have a way of speaking louder than words and Mr. Goodman's action in sending a check to cover a purchase of additional TROUBLE SAVER Steel Brackets tells a big story.



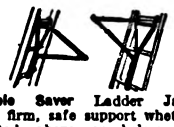
Trouble Saver Adjustable Trestles are furnished in six different sizes that give a range in height by 3 inch lifts from 16 inches to 10 ft. Can be set up and adjusted to the exact height desired in a few seconds.



Trouble Saver Carpenter Bracket. Hooks around the studding and stands firmly on two legs. Will support a ton weight. Far superior to any other method of supporting scaffolding on small buildings.



Trouble Saver Stucco Bracket is quickly attached with four nails. Stands firmly on two legs.



Trouble Saver Ladder Jack. Gives firm, safe support whether adjusted above or below the ladder. Rests on three rungs.



Trouble Saver Asphalt Shingler for composition shingles.

Trouble Saver "Snapping Turtle" Shingler for wooden shingles.

We also make **Trouble Saver** Sectional Steel Scaffolding for use on high buildings.

TROUBLE SAVERS are erected and dismantled in a small fraction of the time required for wooden scaffolds—a saving in time alone which runs into hundreds of dollars a year. Not only is the actual time less, but also the hour-rate you pay your men is less—TROUBLE SAVERS can be put up and taken down by unskilled labor.

You save on lumber bills, too. You practically destroy a complete set of scaffolding lumber on every job. You can use TROUBLE SAVERS continuously for ten years or more. Much stronger than wooden scaffolding. Fold up for storage.

Mail the coupon for prices, information and details of our 30-day trial offer.

The Steel Scaffolding Co.
Evansville, Indiana

THE STEEL SCAFFOLDING CO.,
Evansville, Indiana.
Gentlemen: Please send me prices and full information on your TROUBLE SAVERS; also details of your 30-day trial offer.

NAME .....
ADDRESS .....
CITY ..... STATE .....

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ARKANSAS SOFT PINE

Satin-Like Interior Trim



For SNUG MITRES *For* TIGHT JOINTS
For EXACTING CLIENTS

...The Camera Says "*It Does Not Split*"... The Carpenter Says "*It Cuts Clean*"...The Cabinetworker Says "*It Is Workable*"... The Customer Says "*It Is Perfect Woodwork*" ...The Architect Says "*It Gives My Clients Perfect Woodwork at Moderate Cost*"

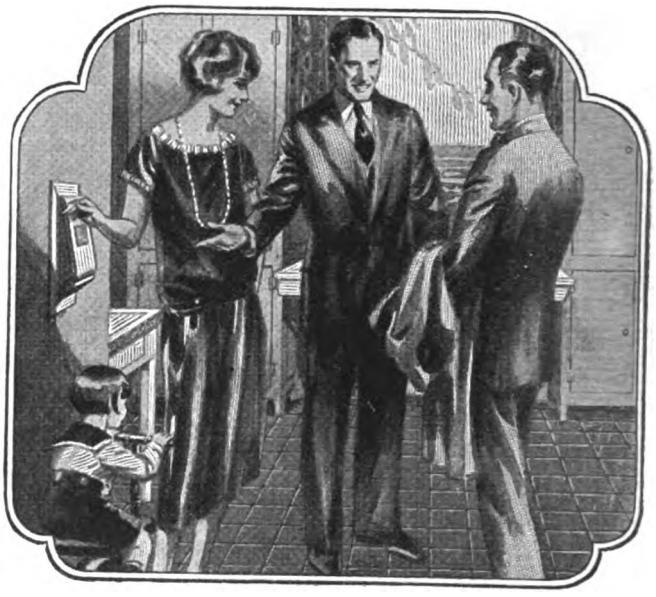
Arkansas Soft Pine is a super-fine quality of close grained, fine textured wood. Virtually free from rosin, it absorbs stains and enamels with exact uniformity. Its elastic, tough fibre and absence of hard streaks are insurance against raised grain and guarantee a finished surface of permanent, velvet-smoothness. Arkansas Soft Pine is scientifically dried in modern moist air kilns. It is free from cupping, warping and twisting tendencies, and "stays put." It saves labor costs, being readily workable, and responds to edged tools in a way that commands the preference of cabinetworkers.

May we submit convincing evidence in the form of natural and finished samples, technical literature? Write now!

Arkansas Soft Pine is trademarked, grademarked and sold by dealers and planing mills east of the Rockies.

ARKANSAS SOFT PINE BUREAU

1193 Boyle Building, Little Rock, Ark.



No garbage worries! *—and a better satisfied home owner*



THE better a customer is satisfied with his new home the more he will add to your reputation as a builder when he talks to his friends. It is just such outstanding conveniences as the Kernerator that assure you valuable returns in the form of good-will.

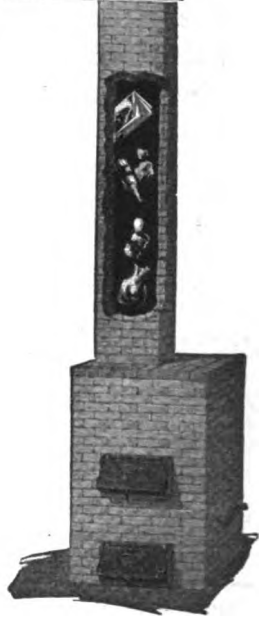
The Kernerator is the finishing touch to the modern kitchen. Your customer will not always think of it in time but he will welcome the suggestion enthusiastically when you mention it. He will be especially interested when he learns that

it costs nothing to operate

All waste—not only garbage but sweepings, tin cans, broken glass and crockery, paper, and the like—dropped through the handy hopper doors, falls to the brick combustion chamber, where an occasional lighting is all that's needed. No gas, oil, wood, coke or any fuel required. Non-combustibles (tin cans and the like) are flame-sterilized for removal with the ashes.

See Sweet's 1926 Catalog—Pages C3054-C3055, or write

KERNER INCINERATOR CO.
727 East Water St. Milwaukee, Wis.



The Kernerator is being built into each of the Model Homes of the Home Owner's Institute.

KERNERATOR

REG U S PAT OFF

THE CHIMNEY-FED INCINERATOR

Garbage and Waste Disposal without Leaving the Kitchen

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Packo STORAGE SYSTEM

Automatic Storage System

delivers piping hot water in any quantity at full city pressure from any or all hot water faucets day or night.

Yet it does not burn a single unnessary foot of gas.

The "Klixon" thermostat which regulates the flow of gas turns it on only when the temperature of the water falls below a certain predetermined heat.



The Packo is shipped completely assembled, leaving only three connections to be made by your local plumber.

Riverside Boiler Works, Inc.,
Cambridge, Mass.

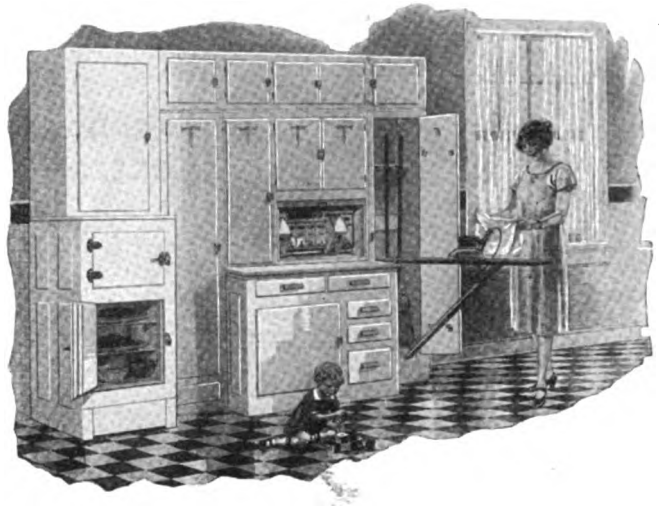
Send me your booklet—
"Hot Water service for the home."

Firm name

Address

KITCHEN MAID

STANDARD KITCHEN UNITS



Units complete and compact—the modern way to save space

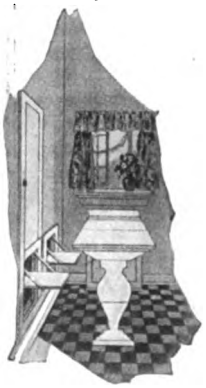
Because they are so efficiently compact—because they are so complete—because they provide greater-than-pantry convenience *right in the kitchen*—Kitchen Maid Units are standard equipment in the plans of many leading home and apartment builders today.

These units include not only kitchen cabinet, linen cupboards, dish and broom closets, but refrigerator, disappearing breakfast nook and folding ironing board as well. Each unit is complete in itself—can be used alone or in any unit combination you choose.

Only Kitchen Maid Units have sanitary rounded inside corners and smooth panel doors. Only these units can offer Kitchen Maid beauty, efficiency and completeness. Yet they cost no more installed than old-fashioned cupboards.

For profit and good will, install Kitchen Maid Units in the homes and apartments you build. Mail coupon for catalogue, dimensional drawings and prices.

WASMUTH-ENDICOTT COMPANY
1511 Snowden Street, Andrews, Indiana



The Pulmanook
Consists of table and two or four chairs. Folds easily and quickly into wall

"Let the Kitchen Maid Be Your Kitchen Aid"

KITCHEN MAID
STANDARD UNIT SYSTEMS

WASMUTH-ENDICOTT CO.
1511 Snowden St., Andrews, Ind.
If in Canada, Address Branch Office, Waterloo, Ont.
Please send catalogue and full information about Kitchen Maid Units to:

Name_____
Address_____
City_____
State_____

Kitchen Maid Equipment Used in All Model Homes Built by Home Owners Institute

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Not a cent extra—



—for being the best

A heavy, 4½-pound lath—

A lath self stiffened by a patented system of raised arches.

A lath that workmen like to install and to plaster over.

A time-tested lath that will keep your walls and ceilings true and unblemished for years to come.

All these advantages are yours at a finished wall cost actually less than that of lighter, flimsier laths. Saving of supports, saving of needless overlap, saving of plaster and plasterers' time are all assured when you use Bostwick "Truss-Loop" Metal Lath. The difference in quality is yours without expense.

Write for sample and literature.

THE BOSTWICK STEEL LATH CO.
NILES, OHIO



Member of National Council for Better Plastering

Bostwick
TRUSS-LOOP
METAL LATH

KOSMOS PORTLAND CEMENT — KOSMORTAR EASY TO SPREAD



Many Units
—Welded as One

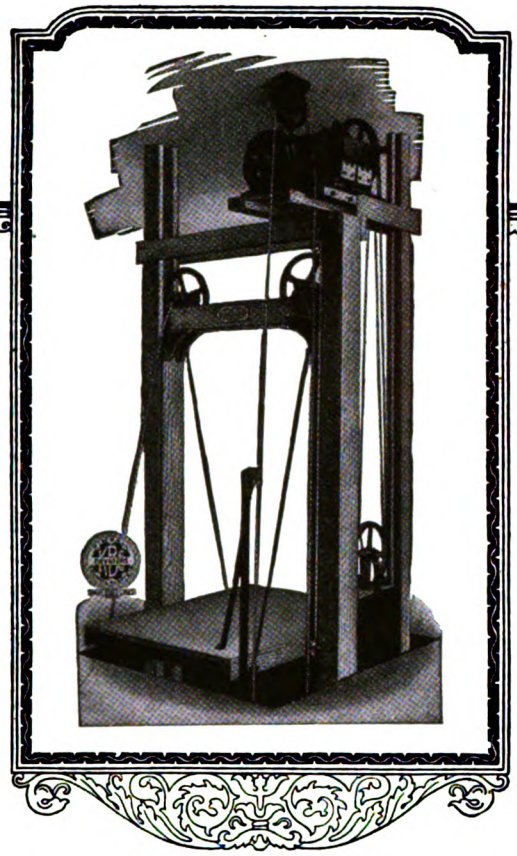
A "solid brick wall" becomes more than an expression when laid up with Kosmortar. It binds brick or stone into a single, solid unit of uniform and enduring strength. Yet it is the easiest working mortar. Tests repeatedly prove it so and workmen declare it so. — *The Ideal Cement for Masonry.*

Kosmos Portland Cement Co.
Incorporated
Sales Offices: Louisville, Ky.
Mill: Kosmosdale, Ky.



KOSMORTAR
A MASON'S CEMENT

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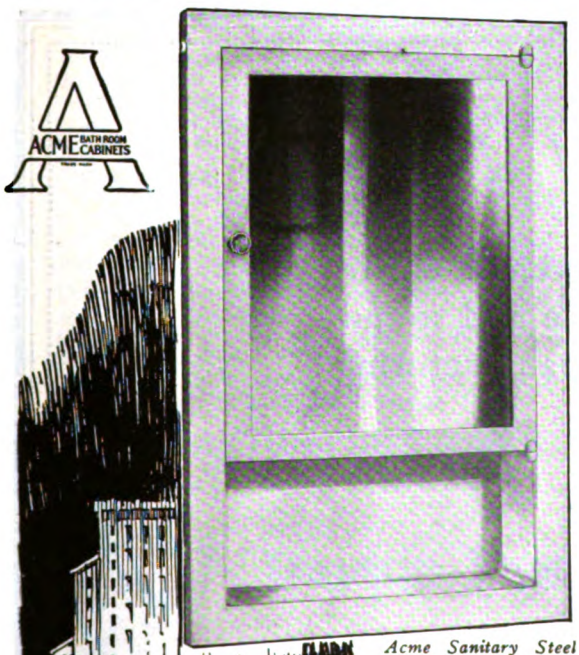
"There is a Kimball built to suit your requirements"

Light Electric Elevators

These machines come in three speeds and capacities. They give the service of the more expensive elevators and are easily and quickly installed wherever there is electricity.

Write for detailed information on KIMBALL'S LIGHT ELECTRIC

KIMBALL BROS. CO.
1106-22 Ninth Street
Council Bluffs, Ia.



Acme Sanitary Steel Bathroom Cabinet Model B

Low In Cost — *but Selected for Quality by America's Finest Homes*

ACME SANITARY BATHROOM CABINETS

Acme Sanitary Steel Bathroom Cabinets, while low in cost, add beauty to any bathroom—whether it be in a Fifth Avenue mansion, a modest suburban bungalow, or a magnificent hotel.

Acme Cabinets are *permanently* beautiful and sanitary. The baked-on white enamel will not peel or crack. The cabinet is made of cold rolled steel—electrically welded into a solid unit. Original trimness not lost through years of service—not affected by dampness or weather. Rounded corners make cleaning easy and increase sanitation. Plain or beveled plate glass mirrors.

Acme Cabinets are built in 10 different models—each model made in various sizes. Special sizes and models made when quantity warrants.

Write for Catalog A-4

MORTON MANUFACTURING COMPANY
5134 WEST LAKE STREET
CHICAGO, ILLINOIS

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Builders and contractors are making money with the AUTOMATIC floor surfacing machine

You can build up a profitable side line with the Automatic Surfacer and still hold your job if you wish. Many builders and contractors are earning from $40 to $50 a day with the Automatic . . . the result of 16 years' manufacturing experience.



The AUTOMATIC in operation. All moving parts entirely enclosed.

THE Automatic requires no previous experience to operate.

The Automatic is the only machine taking up all the dust on the forward cut with new vacuum nozzle. It can be relied upon to surface perfectly ALL wood floors, hard or soft, new or old, rough floors or the finest parquetry, as well as cork, rubber fibre, linoleum, etc. All working parts enclosed.

Free trial. Part down—balance easy payments, which the machine will earn for you.



The little Automatic Surfacing Machine (on table) is a wonder for removing varnish from desk tops, counters, etc., or for all sorts of new work. Is small, compact and made of aluminum—easily handled.

WAYVELL CHAPPELL & CO.

42-44 Jackson St. Dept. X Waukegan, Illinois

Industrial Bond Issues

WE are prepared to purchase entire bond issues of sizeable and sound American industrial and manufacturing companies.

Address our office
at
42 Broadway, New York City

HORNBLOWER & WEEKS

ESTABLISHED 1888

BOSTON NEW YORK CHICAGO CLEVELAND
DETROIT PROVIDENCE PORTLAND, ME. PITTSBURGH

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PRIVATE WATER SYSTEMS



These three pumps are specifically designed for the home building field. Upper left is "The Cub," lower left the "Freshflo" and immediately above the "Unisystem" No. 40. Each DAYTON Built and DAYTON Guaranteed.

Just How Important IS the Water System?

STOP and consider that question for a moment. What part does the water system play in the home, the school or the store building you must put up? How much trouble could a leaky, faulty, unreliable system cause? How very annoying and expensive could mediocre equipment become! How thoroughly dependent your clients are, upon an adequate, never-failing water supply!

That's the big reason why we are telling you about DAYTON Pumps and Water Systems. We want you to know that these dependable pumps will give your clients absolute satisfaction, serve them long and well and free you from any worries about water supply.

DAYTON Pumps and Water Systems are built in a wide range of capacities and prices. They can be used for deep or shallow wells, are noiseless in operation, positive in action, fool-proof and trouble free. Quality built of carefully selected materials and represent rock-bottom values in high grade pumps.

THE DAYTON PUMP & MFG. CO.
DAYTON, OHIO, U. S. A.



"Dayton" Pumps

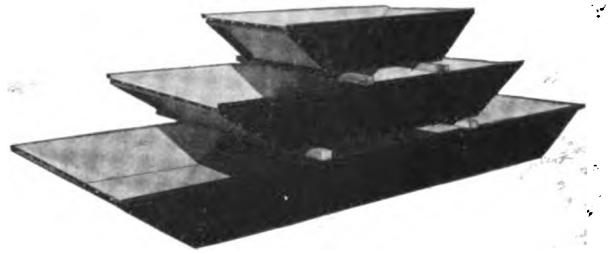
Full Data Free!

A copy of our book, "Dependable Water Service," will be gladly sent you. Pin the coupon below to your letterhead and mail it to us—today!



B. A. 11
THE DAYTON PUMP & MFG. CO.,
Dayton, Ohio, U. S. A.
NAME .....
ADDRESS .....
CITY..... STATE.....

Don't Stop Work In Freezing Weather



Build Fires Under HELTZEL Steel Mixing Boxes

Keep the mortar warm and the work goes on—no delay—no loss.

All steel mixing boxes with smooth seamless one piece bottoms. Absolutely no rivets inside the box. No place for mortar to adhere and harden.

Convenient hand holds. Top edges, sides and ends reinforced.

Three sizes: No. 1 (5'-0" x 2'-4" x 10"); No. 2 (7'-6" x 3'-6" x 10"); No. 3 (11'-6" x 4'-0" x 10"). Steel saddle for hod support furnished when desired.

Thousands in use. Immediate delivery. Low prices. Write for mixing box bulletin and prices.



Steel Sidewalk and Driveway Forms

Steel forms for sidewalks, sidewalk crossings, driveways, curb and curb and gutter.

The Heltzel Steel Form & Iron Co.
Warren, Ohio

Attractive proposition for dealers.

THE HELTZEL STEEL FORM & IRON COMPANY
Warren, Ohio.
Mail me information and prices on:—

Steel Batch Boxes.....

Steel Sidewalk Forms.....

Name .....

Address .....

City .....

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The Pride of Ownership



IN mansion or bungalow—

is the best good-will asset any builder can secure. A **birch** trimmed home—floored with **birch**—inspires the enthusiastic praise and recommendation of the owner to his friends, creating a steady volume of profitable new business.

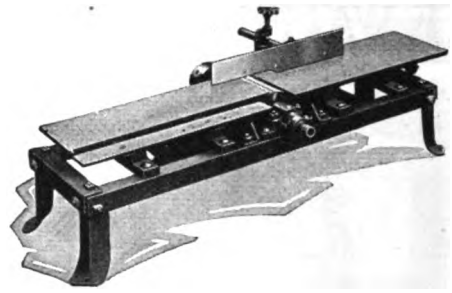


Wisconsin and Michigan **birch** assures all-round satisfaction for large or small job. It works up with but little waste, lends itself to the finest workmanship, stays in place, and stands hard wear, as well as abuse, because of its practically "mar-proof" hardness. It will pay you to also learn more about Rotary-cut **birch** veneers; obtainable in large, beautiful, non-checking panels.

Ask us for particulars. We'll also send a copy of the new Birch Brochure FREE upon request—contains valuable tables upon Physical Properties of all American Hardwoods.

THE BIRCH MANUFACTURERS
229 F. R. A. Building Oshkosh, Wisconsin

"Beautiful Birch for Beautiful Woodwork"



Parks "Little Daisy" Bench Jointer was $75 NOW ONLY $60



Parks "Diamond" 16-inch band saw only $50

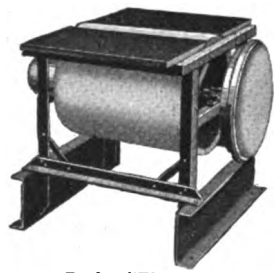
Parks machines that fit *your* work

Both the large and small shop need these handy Parks machines.

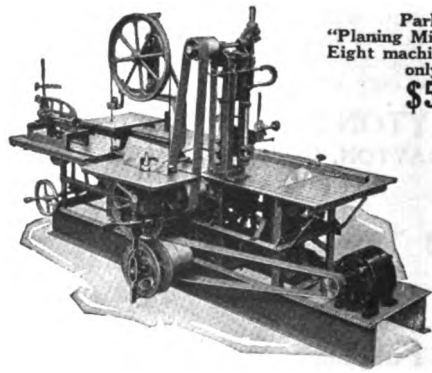
The big shop puts the Parks "Little Daisy" bench jointer on every bench and saves employees' time in trips to and from the benches to a big central machine. Several small Parks "Diamond" band saws may be set conveniently around the shop and save many hours of high-priced time with but small investment. Then a small Parks "Economy" sander should be in every department, saving back-tracking of work for re-sanding.

In the small shop where space and capital are limited Parks small machines and Parks small prices make the difference between a big success or a failure. No shop large or small can afford to turn out by hand what a Parks can do.

Get one Parks or several—but get a Parks!



Parks "Elonomy" 24-inch Sander only $75



Parks "Planing Mill Special" Eight machines in one only $590

Write for complete details on these machines, copy of Parks catalog showing individual and combination machines for every need and name of your nearest Parks dealer.

The Parks Ball Bearing Machine Co.
Station "A," Cincinnati, Ohio
Canadian Factory: 286 Notre Dame East, Montreal, Can.

PARKS
WOODWORKING MACHINES

CASEMENT
WHITCO
HARDWARE



A Whitco Equipped Sash Cannot Sag

Not only does this self-adjusting hardware provide a cradle-like support for the sash as a whole, but the plate which attaches to it provides the strongest kind of a reinforcement for the joint between the stile and the rails.

Whitco is sold by dealers in builders' hardware

VINCENT WHITNEY COMPANY
MANUFACTURERS WHITCO HARDWARE SPECIALTIES

Eastern Offices:
636-645 Mass. Trust Bldg., Boston

Western Offices:
365 Market Street
San Francisco



"Whitco makes it easy and safe to clean both sides of the casement from within the room"

Douglas Fir Facts

— No. 5 —

Uniformity

Douglas Fir varies little as to color and texture . . . a uniform species of commercial soft wood.

Easy to Work

It is light and easily placed in construction.

Properly Seasoned

In the Long-Bell dry kilns at Longview, Wn., it is seasoned in classes, according to sizes and grades . . . one class to the kiln room . . . hence properly seasoned.

Carefully Loaded

In shipping, the car is properly prepared to protect lumber from injury, and closely stowed to avoid shifting.

Use Douglas Fir with the Long-Bell Trade-Mark

THE LONG-BELL LUMBER COMPANY
R. A. Long Bldg. *Lumbermen Since* 1875 Kansas City, Mo.

LONG-BELL
Trade Mark LUMBER

Douglas Fir Lumber and Timbers; Douglas Fir Window Frames, Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties, Guard-Rail Posts, Piling, Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors; Box Shooks.

KNOW THE LUMBER YOU BUY

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A moderately priced home, floored with oak, built by The Acorn Home Co., of Dayton, Ohio

Floor with OAK

Prospects want homes that are attractive, comfortable, and that will improve in worth as ground values increase. A home floored with oak, is a good investment, when selling time comes.

Beauty and permanence in floors are most important, and are assured when oak is used. Oak floors make any room more attractive; they lend an atmosphere of comfort and rich dignity to the interior. They improve with age, and are kept clean and bright with little attention. Discriminating buyers expect floors of oak in a modern home.



Color Finishes

Suggestions which will add individuality to room decoration, with plates showing color effects, are contained in "The Story of Oak Floors," mailed free to builders on request.

Free literature

We will supply you with illustrated literature to show prospects. Also technical booklets for your use, with grading rules, standard measurements, proper handling, laying and nailing, etc.



Mail this coupon

OAK FLOORING BUREAU
841 Hearst Building, Chicago

Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

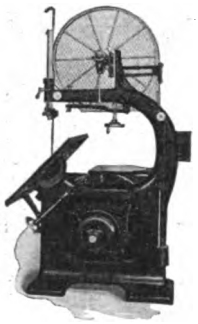
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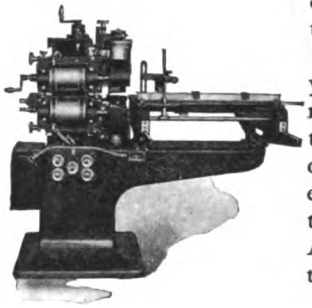
Address .....

City .... *State* .....

Modernize Your Shop

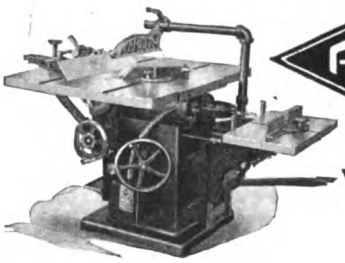
—cut down your overhead. Boost Production and Profits!





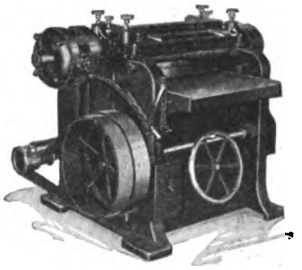
WHY let competitors eat into your business through lower costs due to modern equipment? Modernize your own shop with *Famous* Woodworking machinery. Each piece brand new in design and up-to-the-minute in efficiency. Built especially for getting out quality work in less time. Accurate to a hair, quickly adjustable, motor driven, economical in power and upkeep.

Even if your shop is small, you'll find these sturdy, efficient machines a better investment than light, cheaply constructed ones. They save time. They enable you to win new customers with quicker service. And they outlast several times the lighter makeshifts.

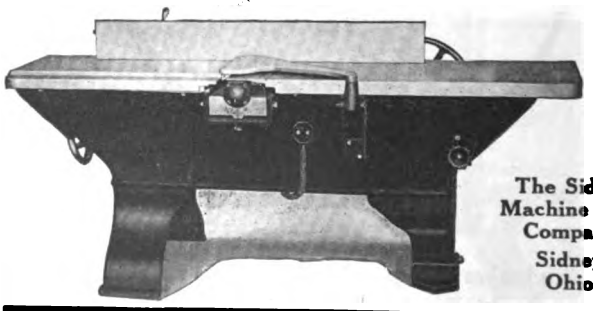


FAMOUS

Woodworking Equipment

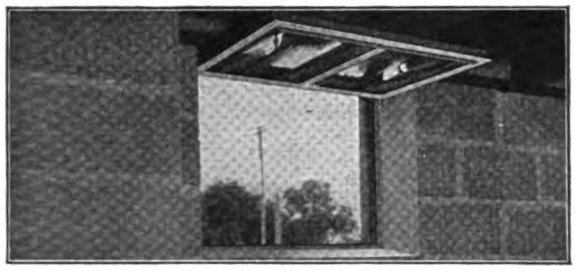


When you say *Famous* you say the last word in woodworking machinery. When you buy *Famous* you buy better work at less cost. Send for a copy of our catalogue showing a complete line of woodworking machines for every shop. Address department 311 now, before you turn the page.

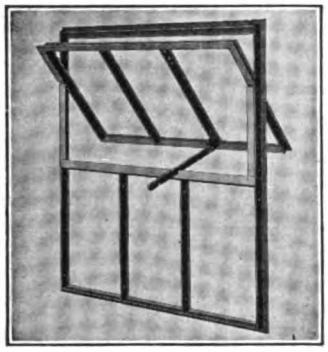


The Sidney Machine Tool Company
Sidney Ohio

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Bayley Window for basement.



Bayley Utility Window.

A Profit Opportunity

Bayley-Springfield Steel Windows

BAYLEY-SPRINGFIELD Steel Windows are easily sold wherever they are shown. Construction features make for strength and economical installation. Requires less time and labor to install than wood windows and therefore profits are greater. Quantity production makes it possible to price at very close figures.

Windows for Basements

For basements in residences, apartments and other buildings. Just the window for side walls in garages and other small buildings. Cost no more than wood, yet give 50 per cent more light—are fire-proof; resist burglar entrance; do not warp, stick or sag. Holes in steel jambs for screens. Made in four standard sizes.

Utility Windows

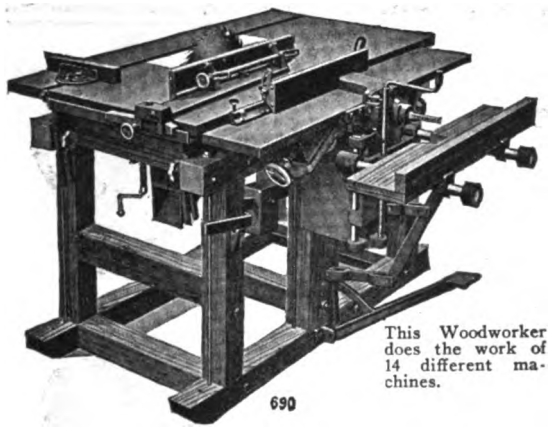
This Utility Window is moderate in cost. Usable in buildings of many types and for many purposes. Ideal for garages and similar small structures. Ventilators center pivoted. Each unit has four lights 12 x 20 and two lights 13 x 20.
Ventilator is equipped with standard Bayley-Springfield Lock Bar which holds ventilator in any desired open position and also locks it when closed.

Write us for attractive dealer proposition

The Wm. BAYLEY COMPANY

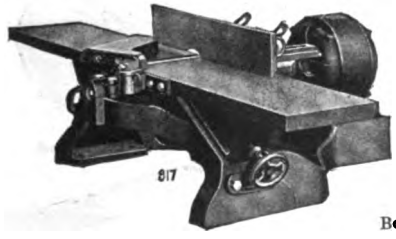
126 North Street, Springfield, Ohio

Sales Agencies in Principal Cities.



This Woodworker does the work of 14 different machines.

690



817

Bench Jointer

Eats the work— that eats the profits Leaves more "velvet" for you

This Portable Variety Woodworker is a complete woodworking shop in itself—a shop that you can take right with you on a job. It may be used as a rip or cut-off saw, as a dado, gaining, grooving, rabbeting, tenoning or boring machine, as a jointer or planer, a matcher, molder or sander, and as a hollow chisel mortiser. A scroll saw attachment may also be included.

Send the coupon for Bulletin No. 82 which describes both the Woodworker and Bench Jointer illustrated on this page as well as many other cost-cutting machines.

AMERICAN SAW MILL MACHINERY CO.

MAKERS OF WOODWORKING AND SAW MILL MACHINERY

61 MAIN STREET HACKETTSTOWN, N. J.

Mail this coupon today

The American Saw Mill Machinery Co.
61 Main St., Hackettstown, N. J.

Gentlemen:
I am interested in the machinery described in your Bulletin No. 82. Please mail me a copy at once.

Name .....

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Make $25.00 to $40.00 a day Winter and Summer~

No Dull Seasons
No Lay~Offs
Your Own Boss



Make up your mind today to write us in regard to this wonderful opportunity which the American Universal Floor Surfacing Machine offers you. It keeps the money rolling in during the winter months when the building business is often slack. It affords you an opportunity to become an American Floor Surfacing Contractor and make big money as well as create a permanent and profitable business that is all your own.

With an

American Universal
FLOOR SURFACING MACHINE

You can not only do the work which it would take six men to do by hand scraping, but you can do it much better and at the same time earn six men's pay.

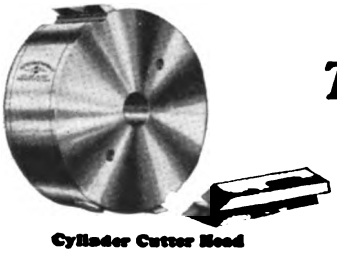
WORK EASY TO GET

Every new floor has to be surfaced and every old floor resurfaced. You need no special training. Any man who is willing to work can make big money as an American Floor Surfacing Contractor. Write today and we will furnish you absolutely free full information in regard to this wonderful opportunity.

The American Floor Surfacing Machine Co.

514 SO. ST. CLAIR STREET TOLEDO, OHIO

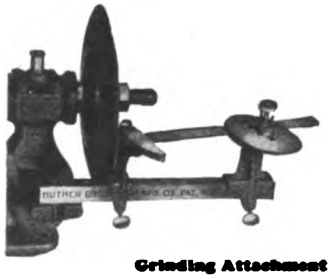
Originators of Floor Sanding Machines



Cylinder Cutter Head



Circular Mitre Saw with Cleaner Teeth



Grinding Attachment

This Season More Than Ever

"YOU NEED A HUTHER DADO HEAD"

With the brisk activity of the winter season just ahead, you need a Huther Dado Head to speed up your production to the point of maximum profit.

With the Huther Bros. Dado Head the most complex grooving and cutting is made easy.

There are other Huther saws, too, that will simplify other saw problems.



Cutter Head



Dado Head



Thin High Speed Steel Knives

HUTHER BROS. SAW MFG. CO.

ROCHESTER, NEW YORK

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Get this—

If you're at all fussy about what goes into your mixers and why!

There's a reason for every feature of design or material in a Ransome Mixer—and you'll admit Ransome has kept pretty well in advance on improvements in mixers.

This new Bulletin tells the "why" of a lot of things that make the Ransome 7-S Standard Building Mixer a real 7-S. Better let us send you a copy—ask for Bulletin No. 110-C.

Ransome Concrete Machinery Co.
Dunellen **New Jersey**

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for Stucco and Plaster

Saves Space in Storage, Is Applied Without Waste



In Bale Form

Keylock is the only complete unit base for stucco and plaster which comes to you packed in this most practical bale form. This packing, 100 sq. ft. to the bale of 20 sheets, each measuring 15x48 inches, saves you money in handling and occupies less storage space.



Keylock consists of finest quality fibre board, heavily coated with asphalt mastic into which beveled wood strips are firmly imbedded, forming a perfect clinch and saving mortar.

This complete base unit is three times stronger than ordinary sheathing and can be nailed direct to studding according to best lathing practice, more than replacing sheathing, building paper and furring strips. It is sound, moisture and vermin proof—insulates against heat and cold.

The overlapping flap on each sheet gives continuous backing without gaps or air holes — an exclusive Keylock feature.

FLINTROCK STUCCO

This is a finely ground, plastic magnesia cement of extreme durability and tenacity, packaged in steel drums. A complete mix, requiring only water—is giving satisfaction everywhere.

ARCHITEX FINISH

This beautiful finishing coat is available in many rich, fadeless colors, in steel drums.

Save freight—order Keylock, Flint Rock and Architex Finish in "mixed cars," at carlot discounts.

Sign and mail this coupon

THE FLINT ROCK STUCCO COMPANY
Dept. BA-11, Fourth St. Arcade Bldg.
Dayton, Ohio

Send full information regarding

- ☐ KEYLOCK STRIP BASE
- ☐ ARCHITEX FINISH IN ALL COLORS
- ☐ FLINT-ROCK ALL-MINERAL STUCCO

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No. 12 and 19-C

F-24

Lansing Concrete Barrow

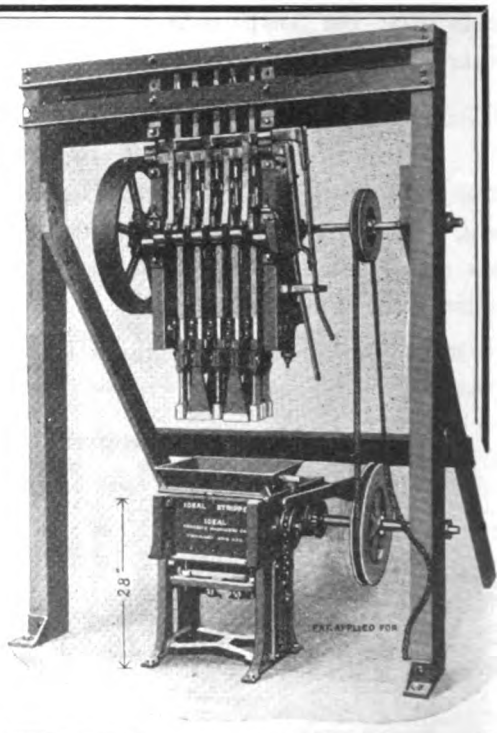
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Nearly half a century of manufacturing and world wide distributing experience is back of Lansing products. Buyers of Lansing equipment are assured of prompt shipments, efficient parts service, and low freight rates.

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Your Strongest Ally for Winter Work



Of course you will operate all Winter the same as all Fall. You can make Winter months profitable —cut your labor turn-over, keep your gang intact and distribute your Overhead costs over 12 months instead of 8 or 9—if you prepare properly.

The Ideal Vertical Stripper

will help you most—you can cooperate with the architect, contractor and others—sell, and make money. Speed, big production, power stripping at no additional cost; low and convenient off-bearing height; thorough tamping with the Ideal 10-Bar Tamper,—all these advantages are offered by the Vertical Stripper. Two tile or one block delivered on one pallet; tile are stronger and lighter—you save 3 to 6 pounds of concrete on each tile.

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5012 SPRING GROVE AVE. CINCINNATI, OHIO
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Elks Club Bldg.,
Sacramento, Calif.

Protects Both Builder and Owner

GF Steel Joists enable you to put up a better building much quicker and, at the same time, give the owner fire safety with economy in floor construction.

You save time and expense because no centering or false work are required. Nor do you need the costly equipment demanded for concreting operations. Your work proceeds quickly and you can erect all floors simultaneously. GF Steel Joists are ideally suited for light occupancy buildings of all kinds and provide greater rigidity and soundproofness along with fire safety and economy.

Handbook and Data furnished free on request

THE GENERAL FIREPROOFING
BUILDING PRODUCTS
YOUNGSTOWN, OHIO

Branches in all Principal Cities
Dealers Everywhere

GF Steel Joists
for Light Occupancy Buildings



Metal Lath
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"Better Building Specialties"

Sykes Metal Lath Co.
Niles, Ohio

ORIGINAL MAILO-BOX

THE MODERN BUILT IN MAIL BOX

Patented October 4, 1921; July 1, 1922; May 4, 1926
U. S. A. and Canada



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PENN-GREG MANUFACTURING CO.,
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Gentlemen: Please send me full information regarding the MAILO-BOX.

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☐ Architect ☐ Builder ☐ Realtor

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If it's a Cheney it's right on the head

—and that's where most hammers go wrong.

There's a lot more to making a hammer than fastening a piece of steel on the end of a stick so that it won't come off — as we've found out during the 90 years that Cheney Hammers have been made for carpenters.

From the butt of the handle to the tip of the claws or the crown on the face, there's a reason, born of years and years of experience, for every curve and line in a Cheney Hammer. Balance — or "hang," driving force and pulling power, all call for certain things — and the Cheney has them.

The quickest and surest way to prove it is to invite you to step around to the nearest hardware dealer and take a Cheney in your hand. You'll see and like the difference.

307

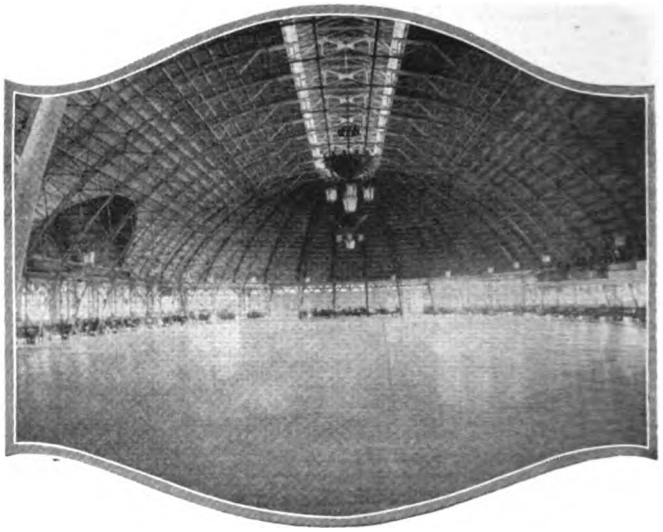
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106 - 110 LAFAYETTE ST. NEW YORK CITY

VISE CO.

CHENEY HAMMERS



Saltair Pavilion—Salt Lake City, Utah. 34,000 feet of Maple Flooring used for the famous dance floor of this structure

34,000 Feet of Maple Flooring

for this great dance pavilion

WHEN plans for the great Saltair Pavilion at Salt Lake City were made, Maple was chosen for the dance floor. Maple—because of all woods, Maple can stand the wear of thousands of dancing feet and remain smooth, even and beautiful year after year.

Maple is remarkably hard, tight-grained, tough-fibred. It will not sliver, splinter or develop ridges. Once laid, a Maple floor is like a great, smooth, one-piece area—because each piece is side and end-matched to perfection.

Two other woods, Beech and Birch, are closely akin to Maple in qualities of wear and take a beautiful stain. These three woods offer the satisfactory answer to every flooring need of apartment and office buildings, of homes, factories, schools, assembly halls, etc. Write for free booklets containing full information about them.

Let our Service and Research Department assist you with your flooring problems. Write us.

MAPLE FLOORING MANUFACTURERS ASSOCIATION
1055 Stock Exchange Building, *Chicago*

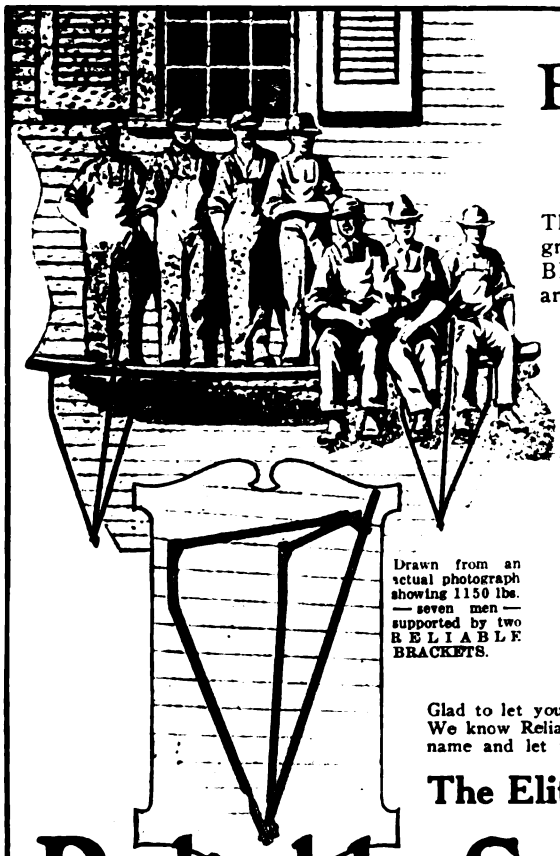
Guaranteed Floorings

The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve every particle of these remarkable woods. This trademark is for your protection. Look for it on the flooring you use.

MFMA

Floor *with* Maple
Beech *or* Birch

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Drawn from an actual photograph showing 1150 lbs. — seven men — supported by two RELIABLE BRACKETS.

Better Equipment— Bigger Profit

The better the tools, the shorter the time on the job and the greater the profit. You can't get away from this fact. RELIABLE BRACKETS are money, time and lumber savers. Wood scaffolds are wasteful and out-of-date. Live carpenters, contractors and builders who are not in business for their health are making each job show the "velvet" by using

Reliable Scaffold Brackets
Patented Oct. 4, 1920
No holes to plug after they are removed

HERE'S A LETTER WE WANT YOU TO READ. WE HAVE THOUSANDS LIKE THIS ONE IN OUR FILES, ALL FROM MEN WHO HAVE USED RELIABLE BRACKETS AND HAVE FOUND THAT THEY DO SAVE MONEY.

F. J. Richartz of Richartz and Furner—Contractors—Camden, N. D., writes: **"In reply to your letter of recent date we wish to state that the Reliable scaffold brackets we purchased from you some time ago, have given us not only satisfaction, but have saved us the cost of them a hundred times in labor saving over the old method of building scaffolds out of wood."**

Easy to put up—they are just as easy to take down. They leave no holes to fill. Used on brick, frame or stucco, Reliable Brackets will last a lifetime.

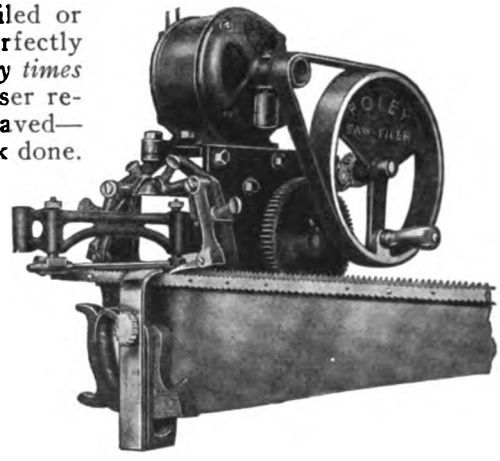
Glad to let you give them a trial before you pay a penny. We ship on approval, C. O. D. We know Reliables will please you as they have pleased thousands of others. Send us your name and let us mail you our catalog and price list.

The Elite Manufacturing Co. **Ashland, Ohio**
S. S.

Reliable Scaffold Brackets

Saws Filed *Automatically!*

Yes—it's an accomplished fact! Saws can now be filed or retoothed by machine with machine precision—so perfectly that the teeth will cut better than new—*and filed many times faster* than they can possibly be filed by hand. One user reports seven saws filed in one hour. Think of the labor saved—no tired backs, no imperfect saws, more and better work done.



Save Your Time and Eyesight with the

FOLEY AUTOMATIC SAW FILER

It files hand saws, back saws, meat saws, band saws, circular saws and other kinds. Made in hand drive and power drive models. Pays for itself in 30 days if used continuously. Mr. Bottomley, Norwich, Conn., writes: "I have filed saws for 40 years, but the Foley Filer has me beat, both as to work and speed."

Make Big Money filing saws. You get 50c or more for filing a saw and $1.25 or more for retoothing. There's a big demand for this work.

30-Day Money-Back Guarantee

Use the Foley for 30 days right in your shop. If it fails to convince you of its value after that fair test—return it and the full purchase price will be refunded.

Investigate! .Write for full information, prices and PROOF that the Foley is making good everywhere.

FOLEY SAW TOOL CO.,
160 Foley Bldg., 916 East Lake St.,
Minneapolis, Minn.

Send facts on filing saws automatically, with the Foley Saw Filer.

Name .....

Address .....

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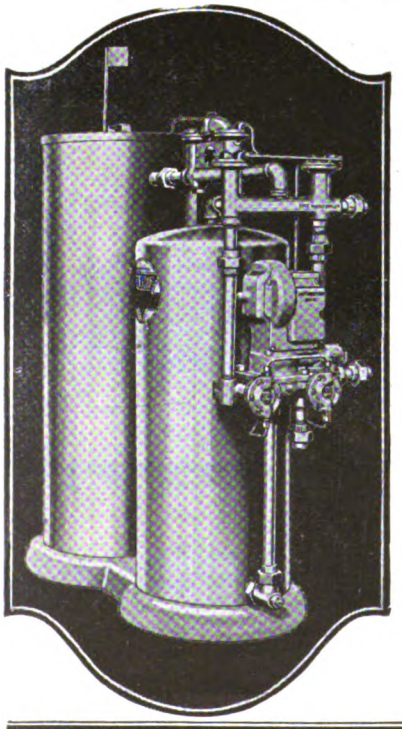


It Costs More to be without DURO Softened Water!

Only the rich can afford to be without DURO Softened Water. Expensive plumbing repairs to water heaters, furnace coils, hot water pipes, etc., through the use of hard water, means a serious loss to the average home owner.

If for no other reason than ECONOMY—it will pay you and your clients to install DURO Automatic Softeners in the homes you build.

DURO Automatic Water Softener



It costs less—far less to install the DURO Automatic Softener and give your clients pure, softened water than to install the cistern and double plumbing and give your clients the uncertain supply of disease-laden cistern water.

Make your homes *completely* modern and delight your clients by installing the DURO Automatic Water Softener.

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THE DURO COMPANY

211 Monument Ave.
Dayton, Ohio

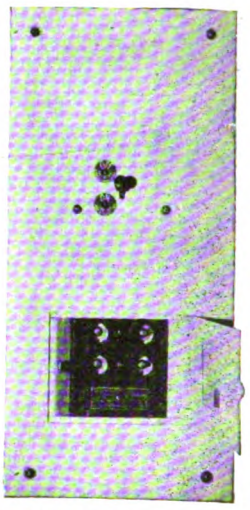
Duro Guarantees Satisfactory Water Service

GET THE LATEST BULLETIN ON THESE

NEW Products for Your Jobs

Here are new FA products to take place of all the makeshift devices previously used for Range and Heating circuit control, the FRS Safety Type Flush Range Switch and the FRSNR Safety Type Flush Range Switch and Heater Circuit Panelboard.
For homes, restaurants, spice and coffee shops, bakeries for ranges, ventilating fans, electric grills, roasters and ovens where adjacent switch control is required or desired.

FA Type FRSNR Safety Type Flush Range Switch and Heater Circuit Panelboard.



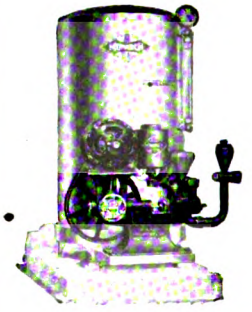
Send for the new FRS bulletin giving full details and suggesting many useful and economic uses for these new products.

Frank Adam ELECTRIC COMPANY
ST. LOUIS

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MONARCH Pumps



"Out in Front"

Two-Pole Automatic Switch an Outstanding Improvement.

The proper action of an automatically controlled pump depends upon the reliability of the switch which controls the starting and stopping of the motor by means of the tank pressure. If the switch fails to act on either the predetermined low or high pressure the system is unreliable. This has never happened and cannot happen to a Monarch pump, because the special new Two-Pole switch employed—with the Safety Circuit Breaker working independently of other mechanism—guarantees against failure to function. Learn more about this—and other—patented features.

Ask for Catalog BA-11

Also makers of Monarch Single Valve Water Softeners. Full range of sizes and prices.

The Monarch Engineering Co.
244 EAST 1st STREET DAYTON, OHIO

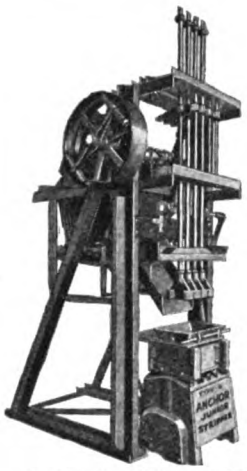
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BLOCKS

TILE

BRICK

ANCHOR



Anchor Jr. Stripper with Anchor Power Tamper—a self-contained unit for the quantity production of plain concrete wall units.

A Business that's Worth Looking Into

Anchor-made masonry units are dense, strong, moisture-proof and true to shape. No culls, no oversize nor undersize units.

To the builder they mean masonry walls at lower cost. To the manufacturer they mean attractive profits because with Anchor equipment labor is reduced, delays are reduced to a minimum, production is kept at any desired level.

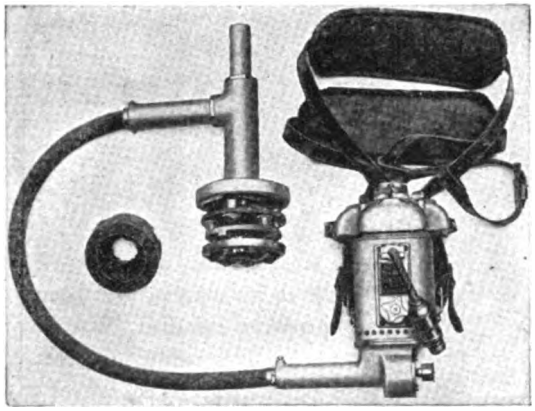
"Start with a Single Unit—Add as You Grow"

ANCHOR CONCRETE MACHINERY CO.
ADRIAN, MICHIGAN

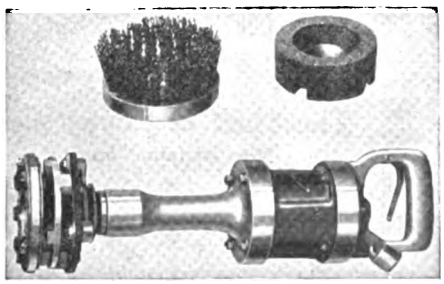
For Fast, Economical Concrete Surfacing—Use

BERG

CONCRETE SURFACER AND FINISHER



THE COMPLETE BERG ELECTRIC OUTFIT (portable) Universal type motor weighs only 20 lbs. Can be supplied for use on either 110-125 or 220-250 volts—Alternating and Direct Current.

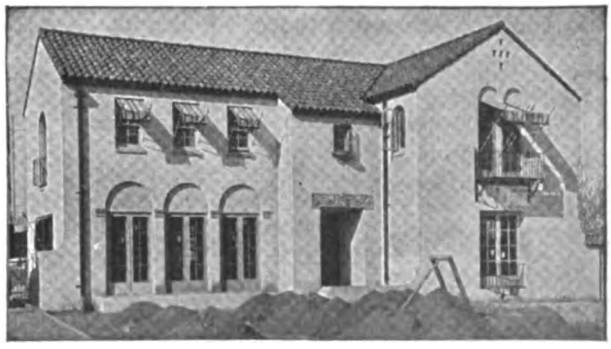


THE BERG PORTABLE AIR-DRIVEN SURFACER AND FINISHER Simple construction—high power—small air consumption—light weight—low maintenance cost.

THE BERG surfaces and finishes concrete construction more quickly, satisfactorily and efficiently than any other method, and secures distinctive results. The cost per square foot of concrete finished is 50% less than when the work is done by hand. One large contractor surfaced and finished a bridge, poured nine months previously, at a great saving per square foot. Many other users have established low cost records. Endorsed by leading architects, contractors, engineers.

Write for complete information Today!

THE CONCRETE SURFACING MACHINERY CO.
4669 Spring Grove Ave., Dept. J Cincinnati, Ohio



Reinforced Concrete Veneer Residence.—Entire exterior surfaced with a BERG by the Fluor Construction Co., Los Angeles and Santa Ana, Cal.

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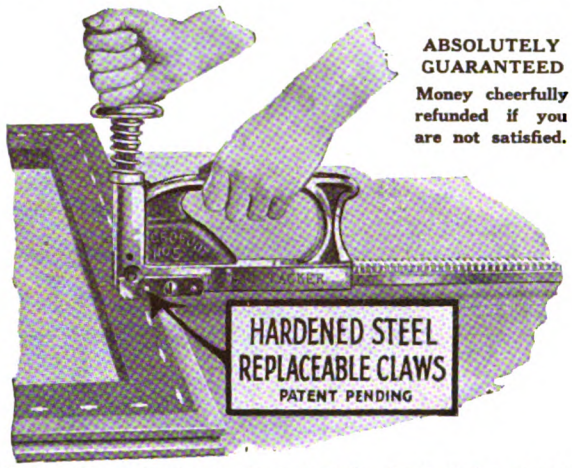
CROFOOT TACKERS PATENTED U. S. A. AND FOREIGN COUNTRIES

Crofoot SCREEN TACKER

LOOK FOR CROFOOT TRADE MARK ON ALL STAPLE BOX COVERS

TACK YOUR SCREENS WITH A

CROFOOT



ABSOLUTELY GUARANTEED

Money cheerfully refunded if you are not satisfied.

Crofoot Screen Tacker is the best device for fastening screens. Drives 77 Staples with one loading, reloaded 3 seconds. Working parts of high grade steel properly hardened. Absolutely guaranteed.

SPECIAL OFFER

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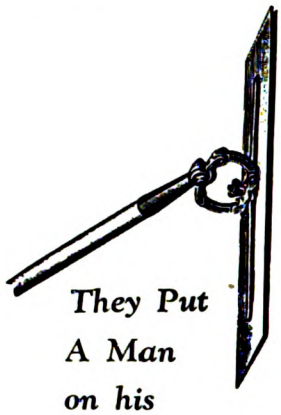
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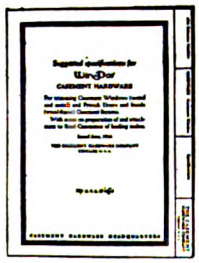
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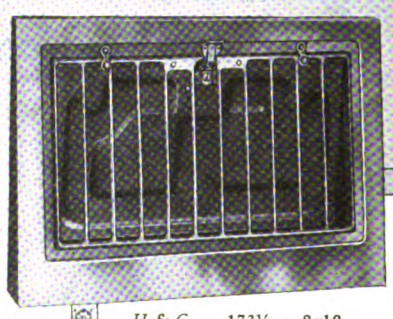


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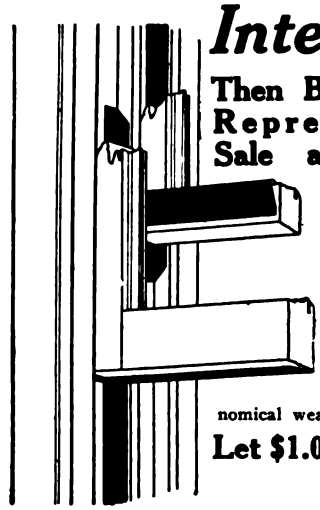
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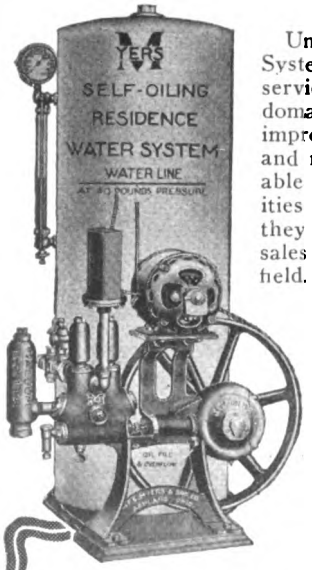
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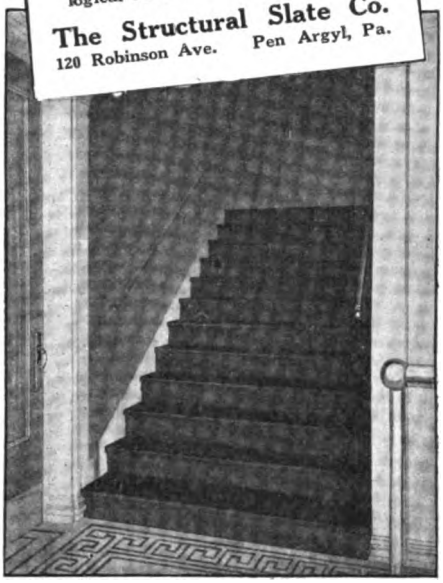
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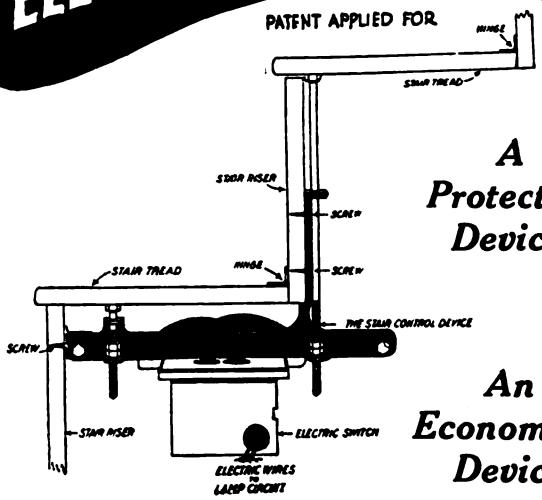
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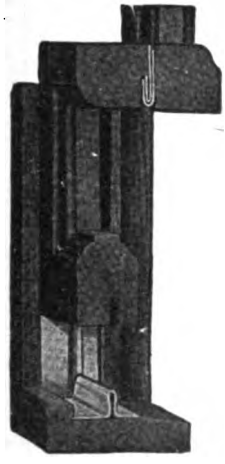
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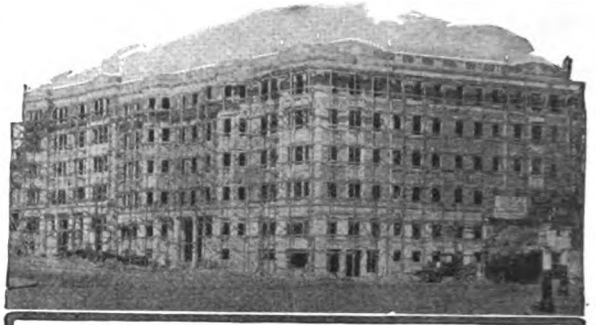
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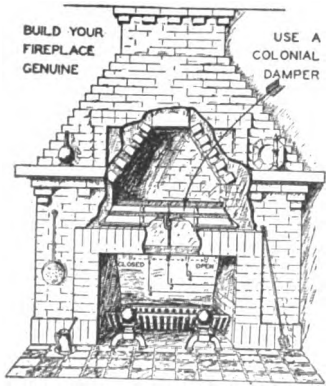
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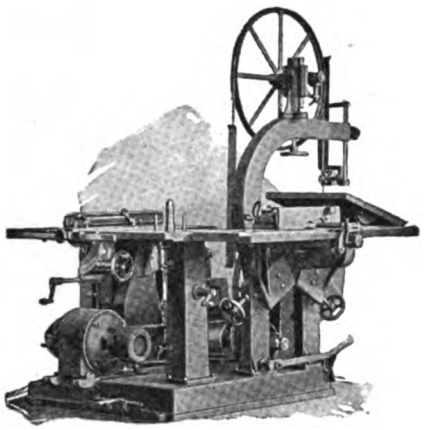
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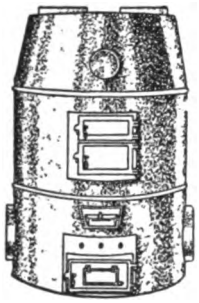
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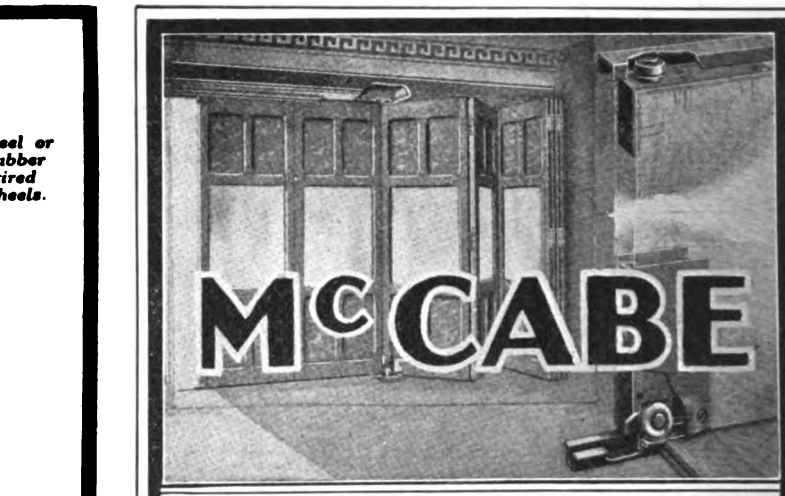
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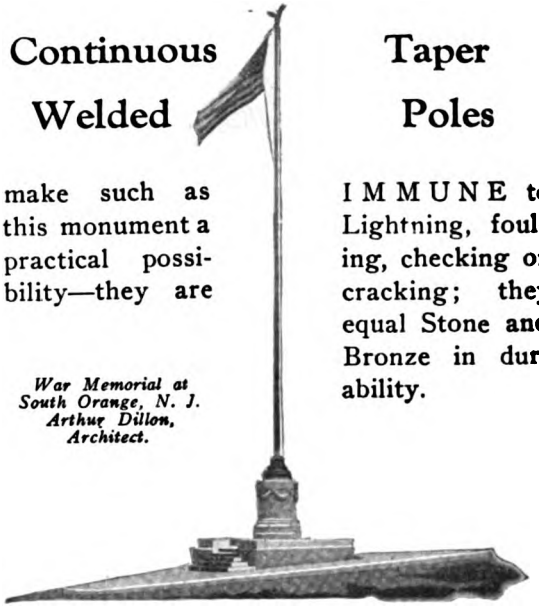
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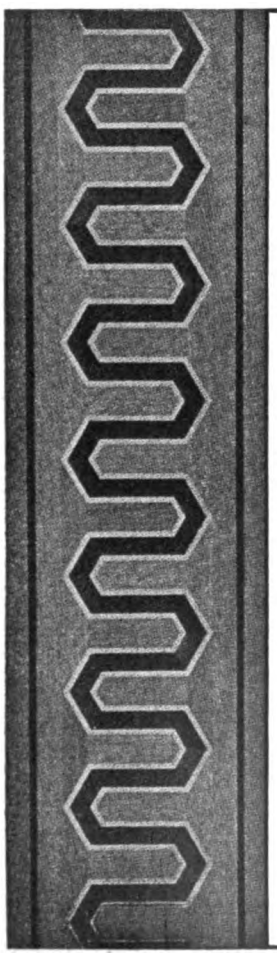
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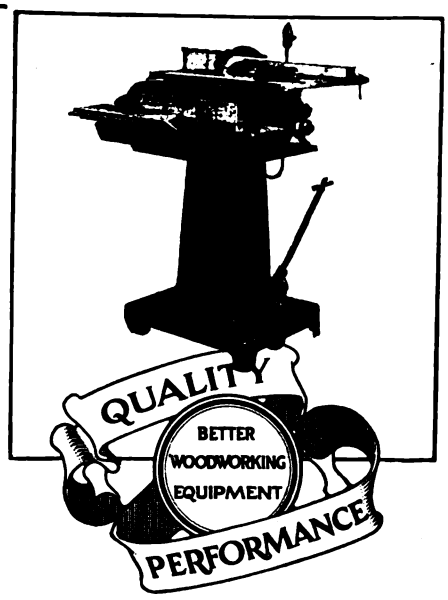
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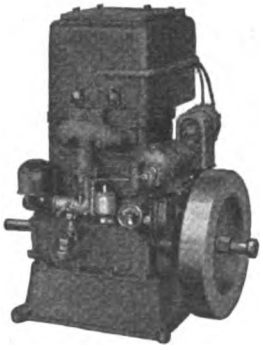
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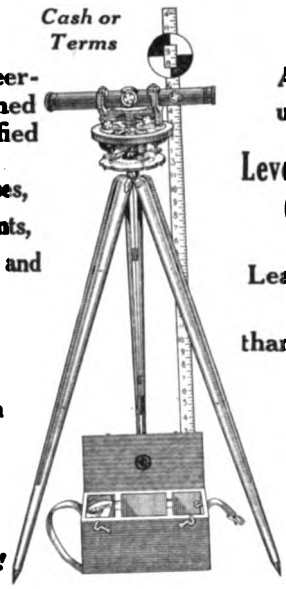
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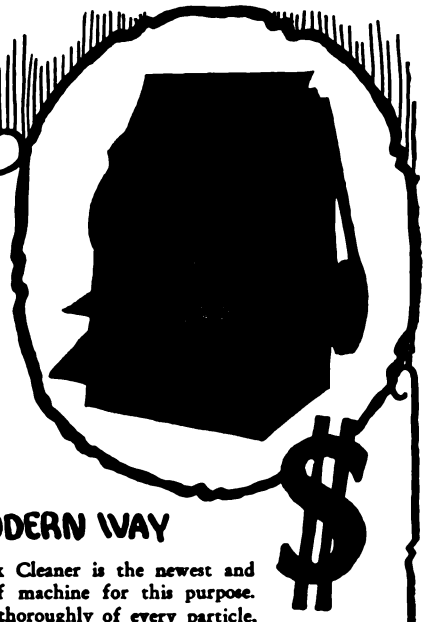
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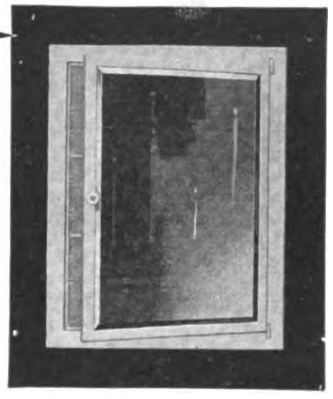
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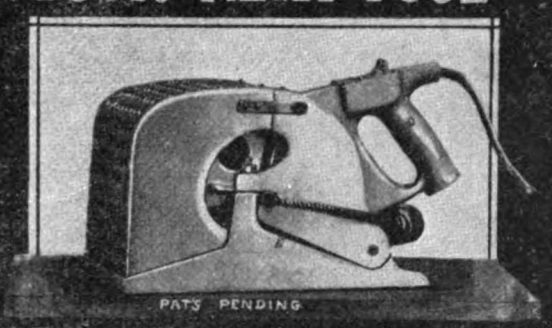
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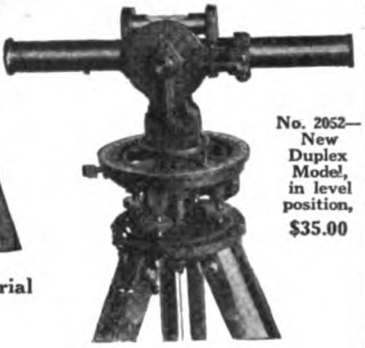
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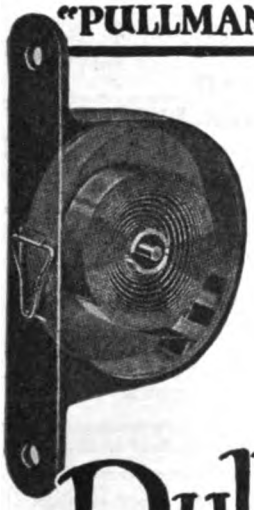
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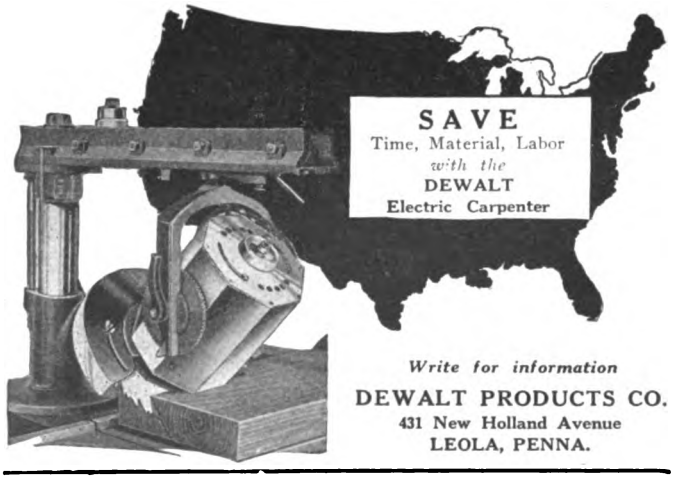


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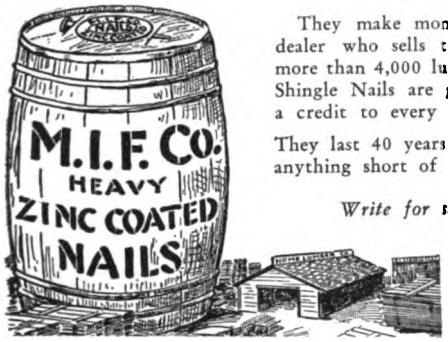
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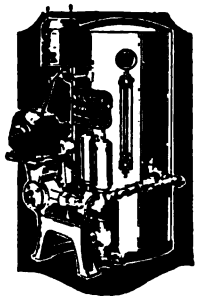


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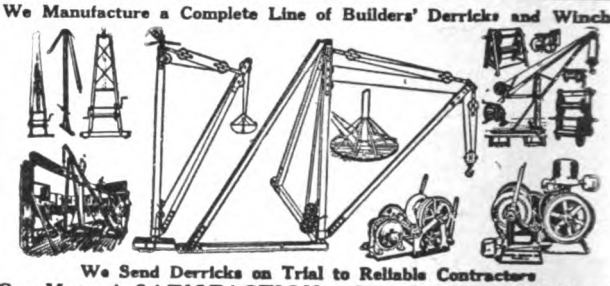


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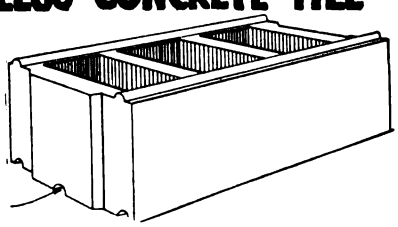
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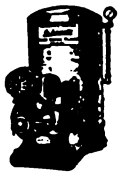
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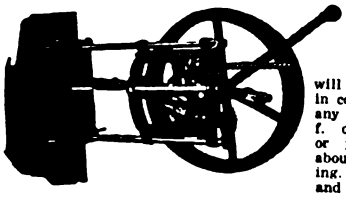


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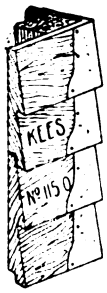
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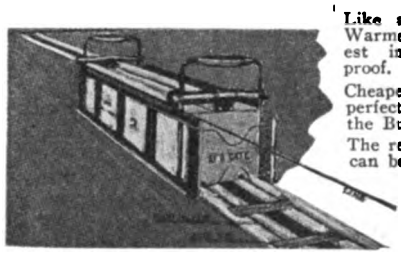
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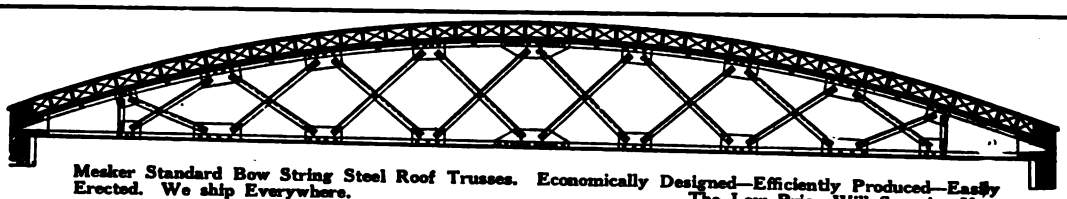
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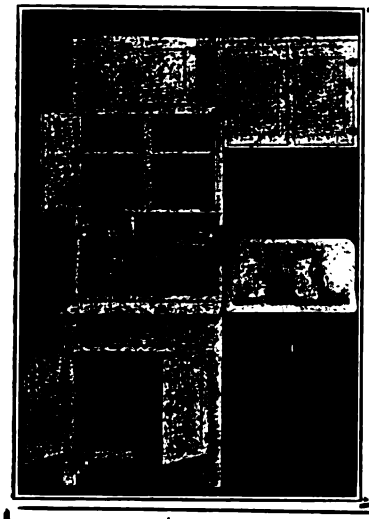
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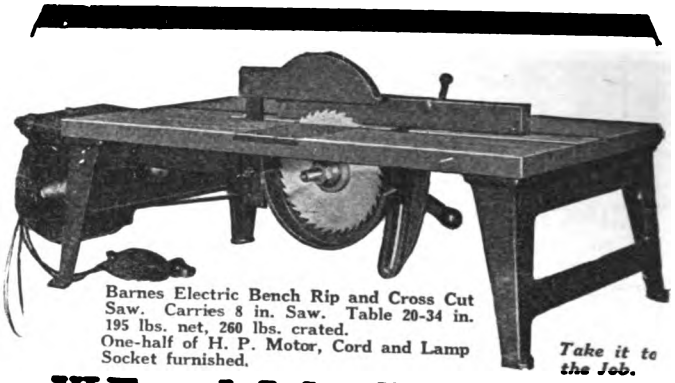
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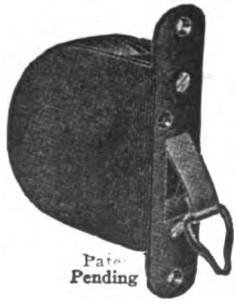
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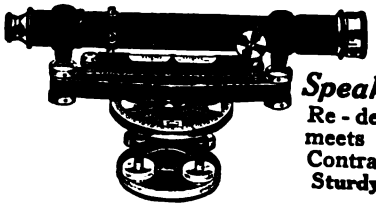
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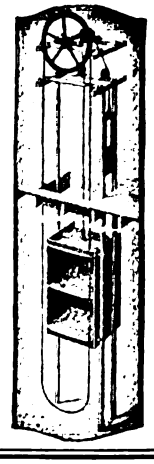
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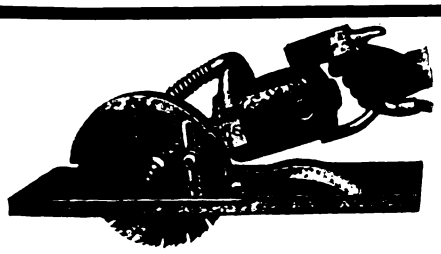
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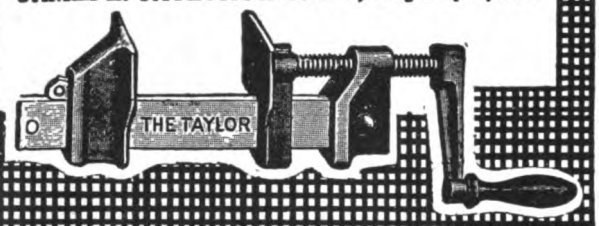
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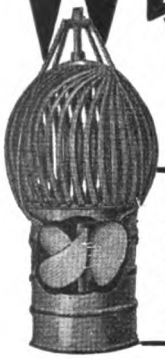
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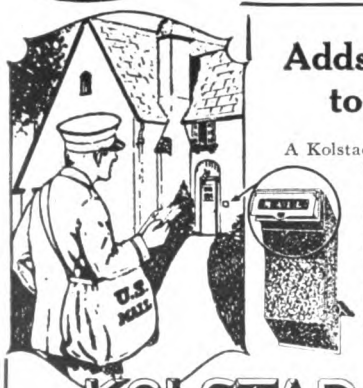
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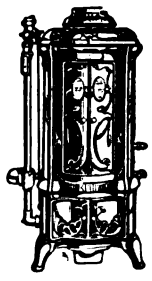
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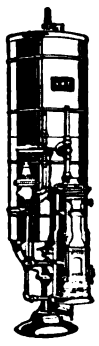
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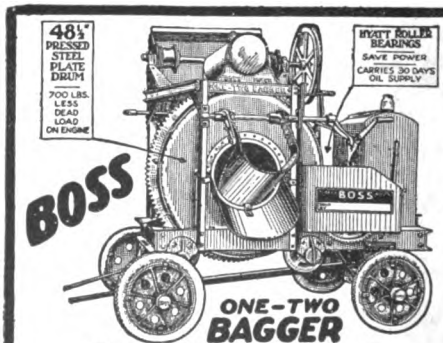
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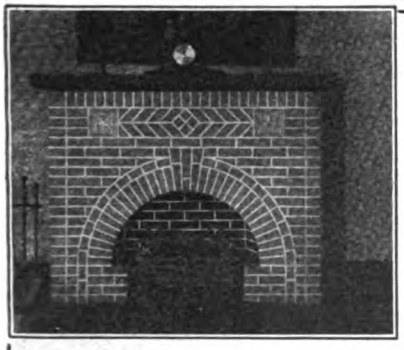
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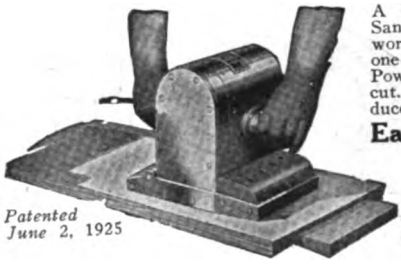
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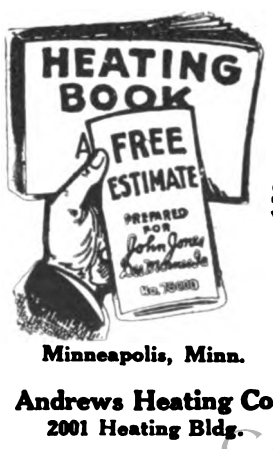
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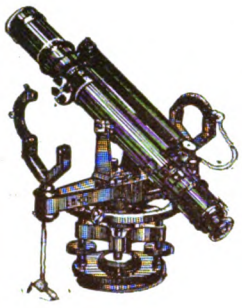
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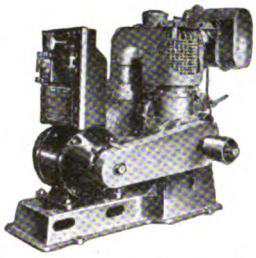


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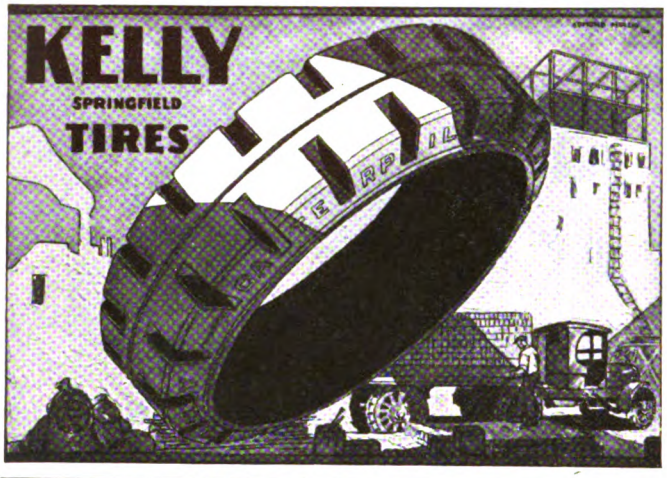
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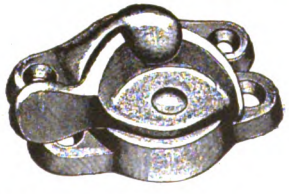
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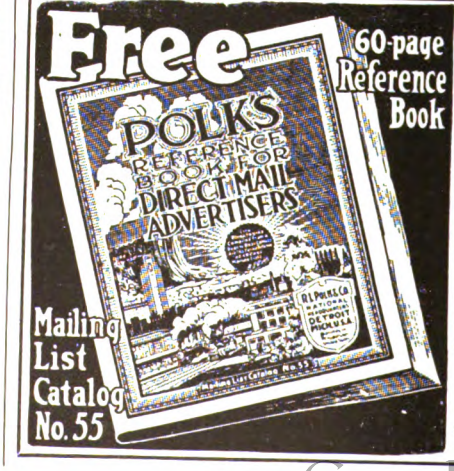
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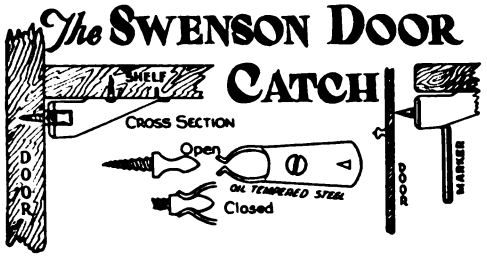
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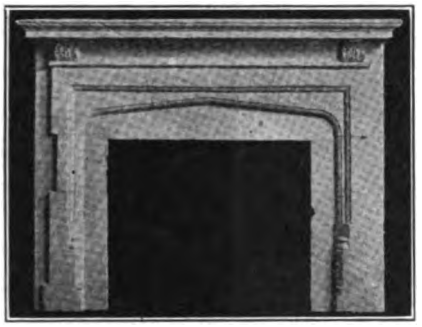
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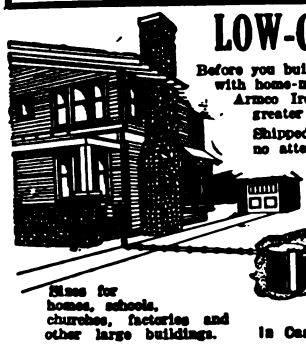
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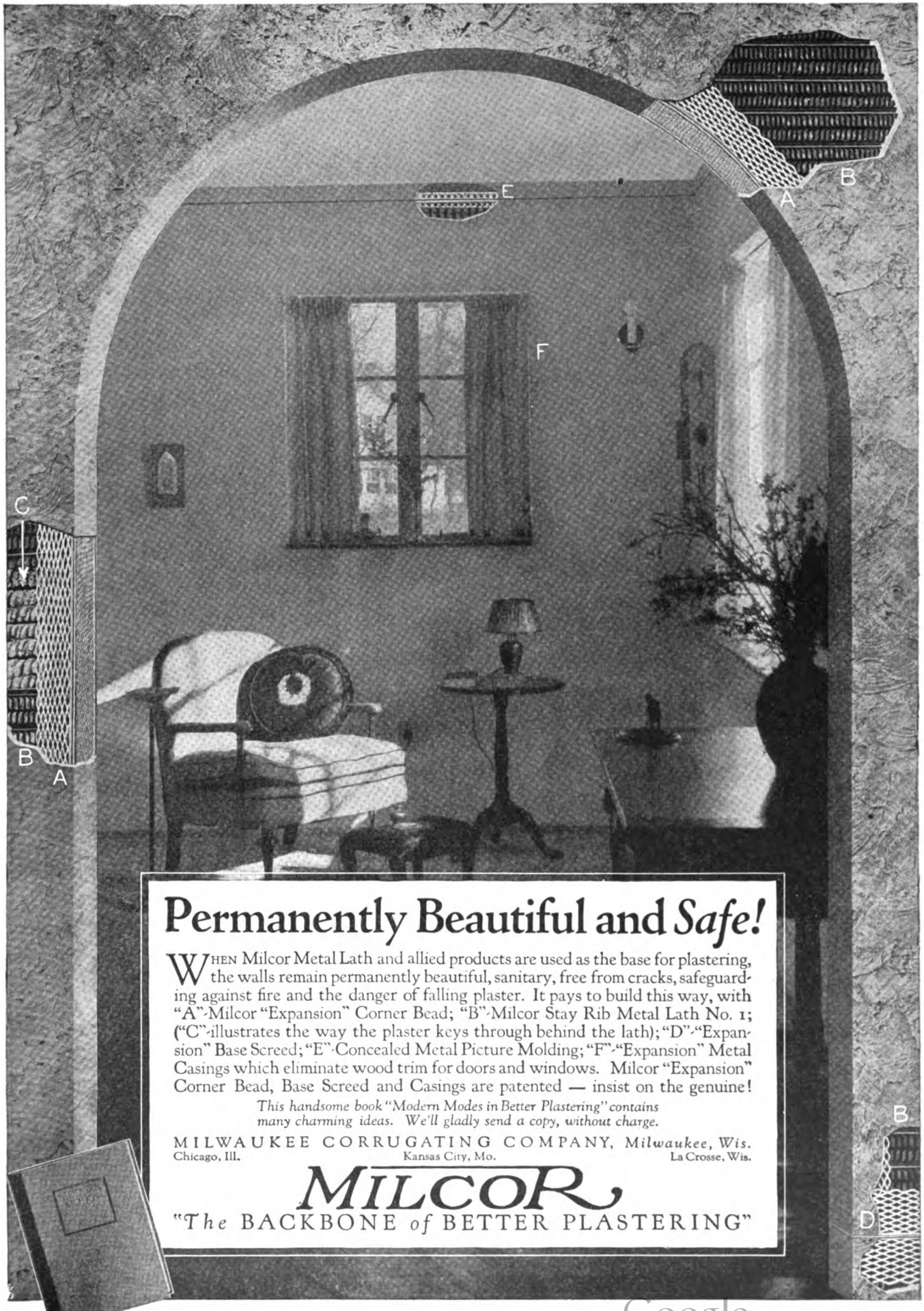
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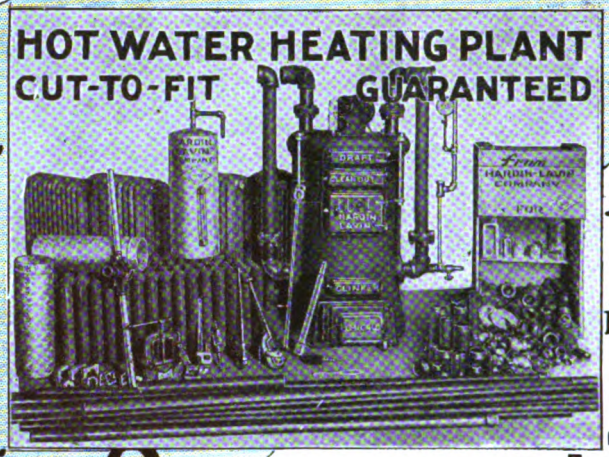
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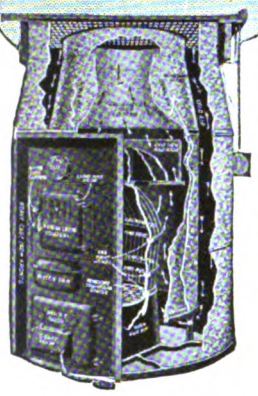
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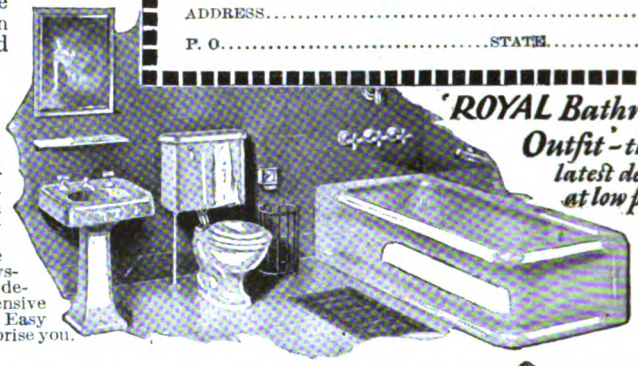
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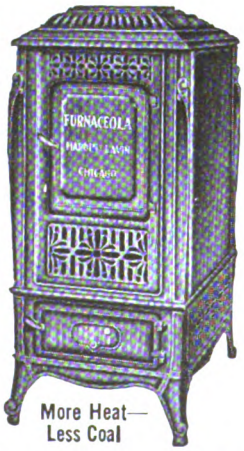
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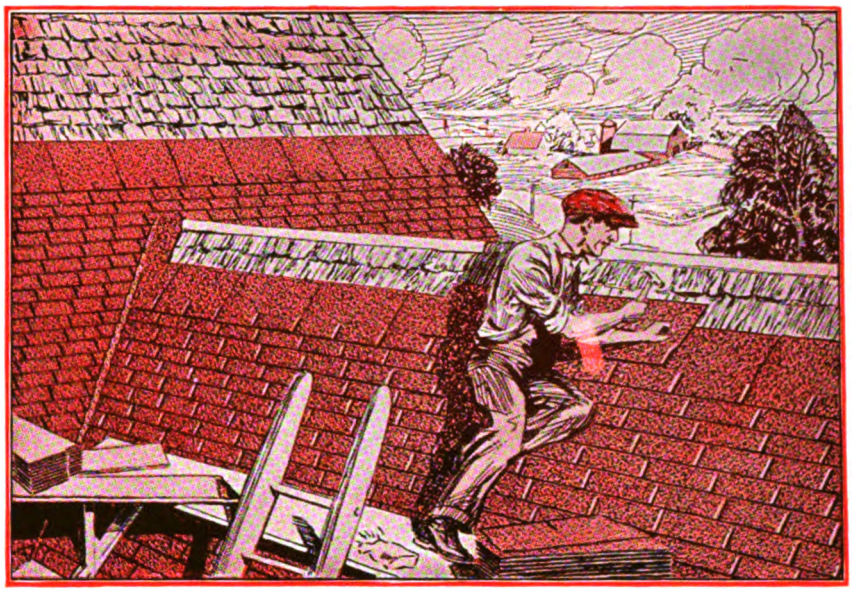
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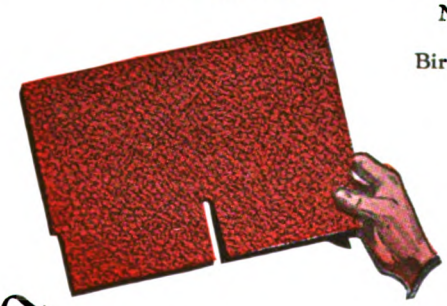
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The one man one hand shingle!

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BERMICO



The Ideal Builders Sheathing Paper

WHEN you begin to feel the chill of the coming winter, you will realize the importance of protecting your houses from the elements. A house clothed in BERMICO builders' sheathing paper insures comfort within no matter how extreme the conditions outside. *Write for facts.*

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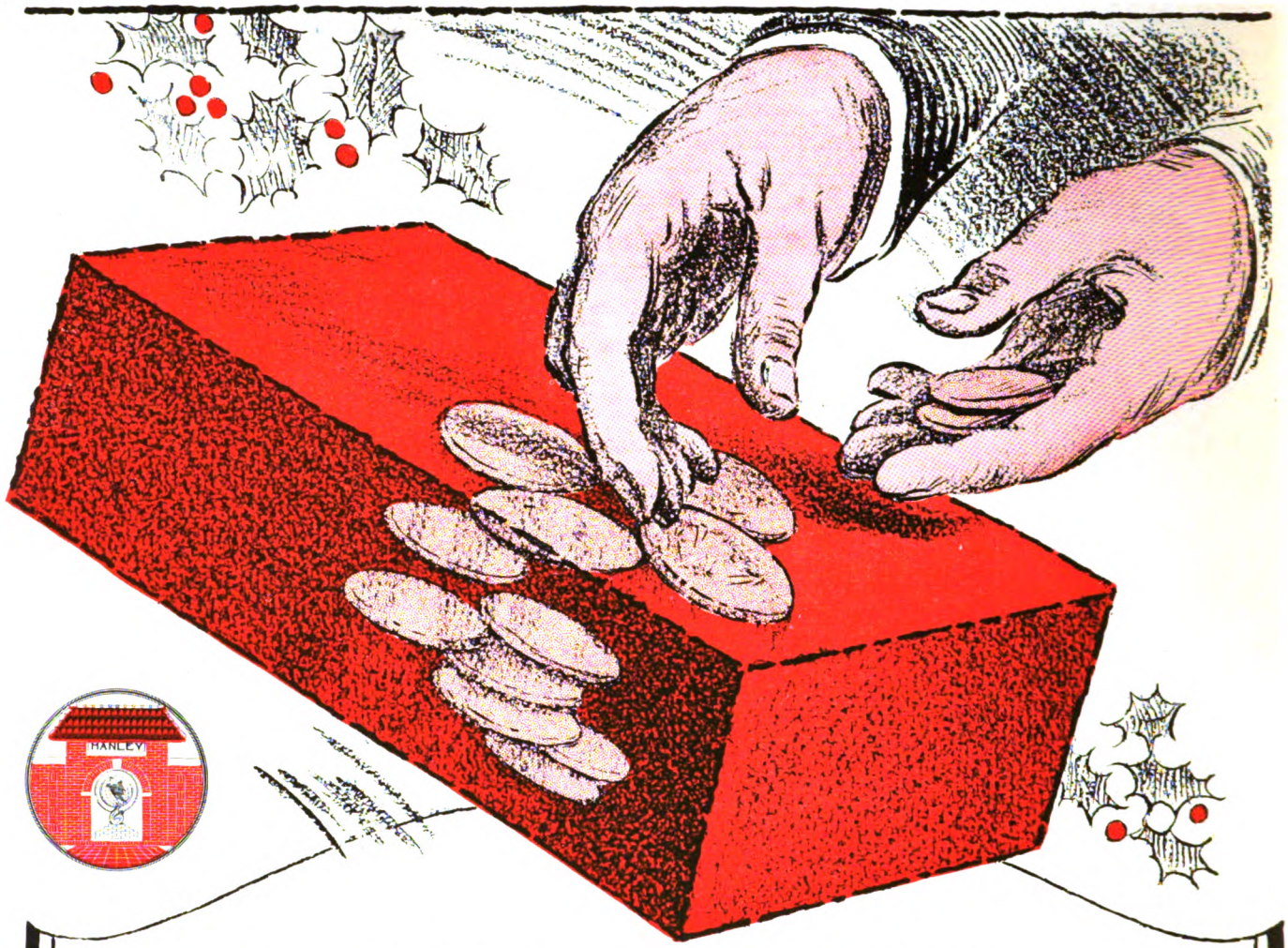
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THE BUILDERS' JOURNAL

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48TH YEAR

December 1926



Year 'Round Christmas Cheer for Builders Using

HANLEY FACE BRICK

The saving in profits to contractors and builders who have used "BRADFORD REDS" for thirty-five years impresses them with a sense of lasting satisfaction and firm confidence in the value of Hanley Face Brick.

The completion of our new plant No. 5 at Summerville, the largest producer of Buff and Grey tunnel kiln face brick in the World, makes available to builders our new "SUMMER GREYS" and "SUMMER BUFFS," which maintain the same high standards of value and excellence that have always been characteristic of "BRADFORD REDS."

The features which make Hanley Face Brick distinctive and so popular with leading builders and contractors are:—

1—Clear rich color assuring permanent beauty.
2—Superior brick in mechanical detail, made in the most modern plants in the industry.
3—Uniform size—easily and speedily laid.
4—Consistent high standard of quality—fewer rejects.
5—Wide range of selection—four types of RED, BUFF and GREY.
6—Constant production of all shades assures quantity large enough to supply jobs of any size.
7—Reasonable price.

A real value backed by a responsible, reliable concern merits the confidence which Hanley Face Brick have earned.

Ask for samples and prices.

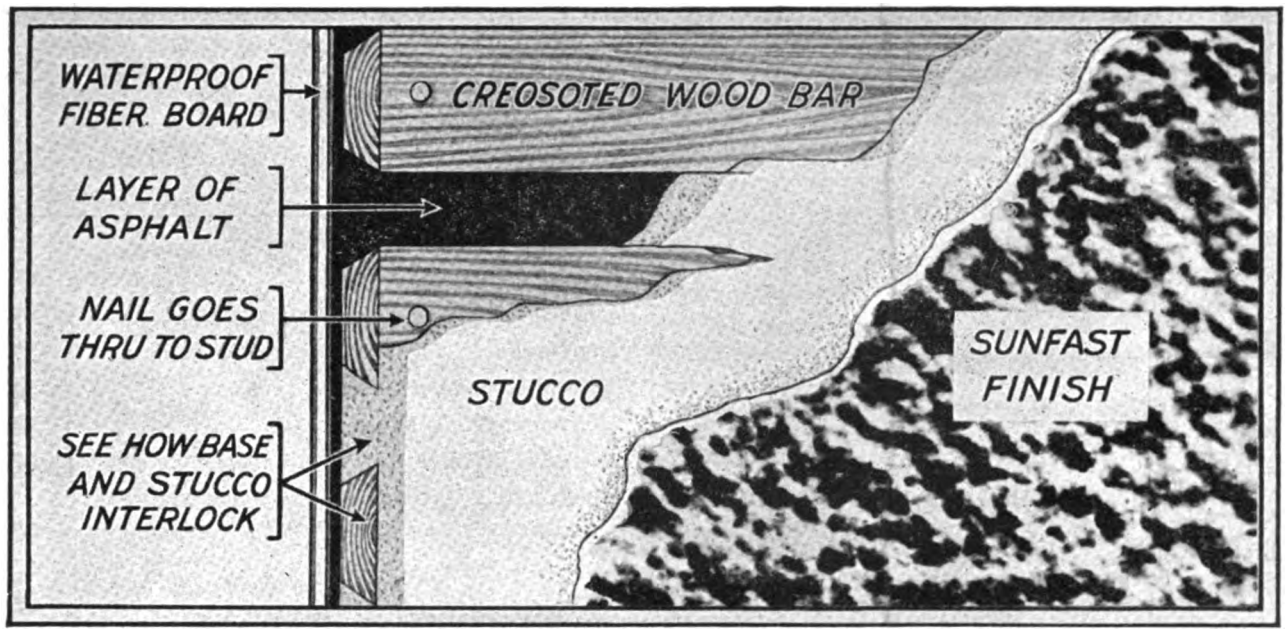
Hanley Company, No. 2 Main Street, Bradford, Pa.

New York Office, 9 East 46th St., Corner Fifth Avenue

HANLEY COMPANY
FACE BRICK

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BUS. ADM. LIBRARY



See how the stucco keys itself into the dove-tail grooves, and is supported between the studdings. The result is a solid UNIT WALL.

More contracts—better profits!

With this scientific stucco reinforcement

Bids which include Bishopric Reinforcing Base are *unusually successful.* That's because you can assure the prospective builder a stucco home with walls of *super-strength.* And profits on jobs where this superior reinforcement is used, are greater. That's because you *save 25% in labor and materials.*

Bishopric Base is stronger because it's made *scientifically.* Bone dry creosoted wood bars are embedded under great pressure into finest quality fibre-board heavily coated with asphalt mastic. The result is a sound-deadening, vermin-proof, fire-resisting base of unusual strength.

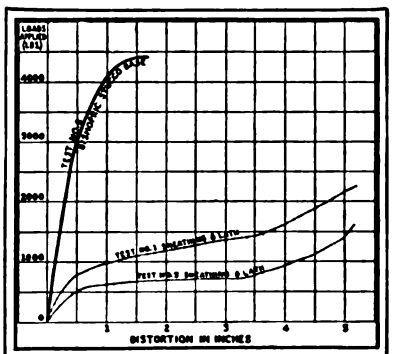
Actual tests show that Bishopric Reinforcing Base is over 6 times as strong as lumber sheathing. (See chart at right.)

With Bishopric Base you save one-fourth the usual cost—

—*in labor,* because Bishopric Base comes complete to the job in rolls, is quickly cut to size, and can be laid by one man;

—*in reinforcement,* because Bishopric Base can be laid direct to studdings, requiring none of the sheathing used to reinforce ordinary constructions;

—*in materials,* because the dove-tail construction requires less stucco, and the fibre-board prevents any of the stucco from falling between the inner and outer walls.



Test conducted by Robt. W. Hunt & Co., of Chicago, Illinois—one of America's foremost engineers.

WHAT THE CHART REVEALS

The results graphically portrayed in this Chart show that by *actual test* Bishopric Stucco Base stands *twice* as much weight strain as wood sheathing and ordinary lath, with less than *one-third* the distortion of the base.

Bishopric will thus stand a *far greater strain than any stucco base would ever be subjected to!*

Send for NEW BOOKLET

If you want the most up-to-date information on how to get excellent results with stucco *every* time, send for our new booklet "Looking Behind the Stucco."

It is free to you. Simply sign and mail the coupon below

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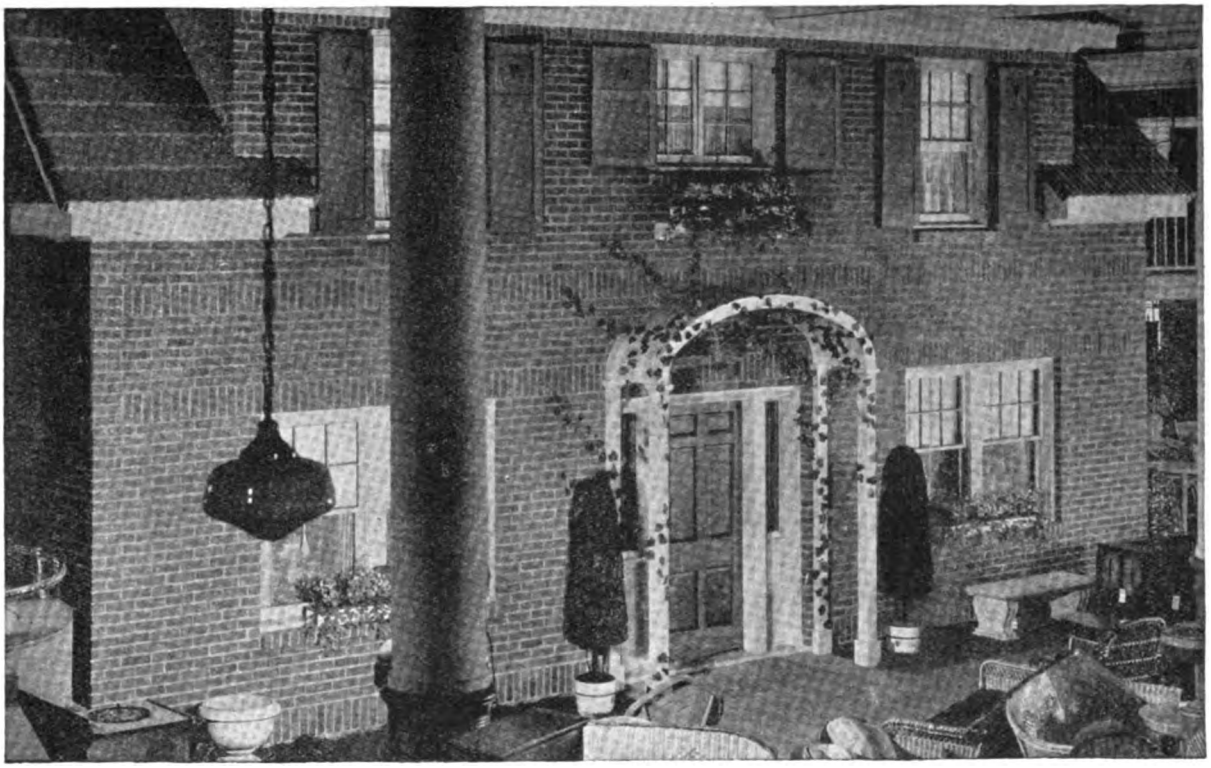
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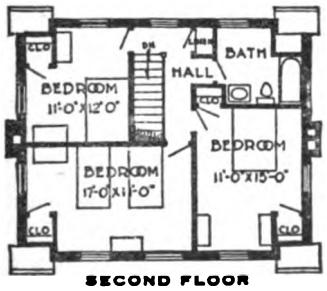
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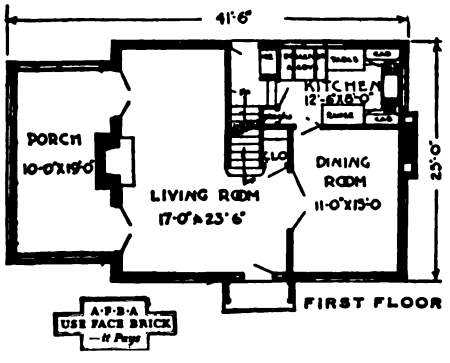
"Better Homes in America" House—erected in the furniture store of Alexander H. Revell & Co., Chicago, by Robert Volk, progressive builder, from our 6-Room House Plan No. 627, as an attractive setting for the display of furniture.



Our House Plan No. 627



SECOND FLOOR



Selling Face Brick Houses in a Furniture Store

THE Alexander H. Revell Furniture Co. arranged for Robert Volk to build a full-size duplicate, except sun parlor, of the Chicago "Better Homes in America" Model House on the main floor of their immense display rooms as a permanent Home Exhibit.

Thousands of prospective home-owners have been impressed and, as a result, the builder has secured scores of prospects and actually made a number of sales.

Build one attractive Face Brick house in your community and it will sell other jobs for you.

Send for These Association Booklets

"The Story of Brick" shows modern homes and discusses comparative costs. Sent free.

"A New House for the Old" tells the contractor all he wants to know about Face Brick veneering and gives complete instructions for doing a good job. Sent free.

"A Manual of Face Brick Construction," 116 pages, a text book on the three types of Face Brick wall construction, giving the contractor all the information he needs in building Face Brick houses. Sent for one dollar.

"Face Brick Bungalow and Small House Plans," a series of 128 designs of Face Brick houses, distinctive in design, convenient in floor plan and economical to build, issued in four booklets showing 3 to 4-room houses, 5-room houses, 6-room houses and 7 to 8-room houses. The set, one dollar; single booklets, 25 cents each.

"The Home of Beauty," fifty 6-room houses selected from a nation-wide architectural competition. Sent for 50 cents.

"Two Apartment and Double House Plans," 14 attractive designs of duplex and double houses, showing 28 plans of 5 and 6 rooms each. Sent for 25 cents.

For all of the houses shown in these booklets complete working plans, specifications, etc., are available at nominal prices.

American Face Brick Association

1764 Peoples Life Building
Chicago

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a decorative grille work of permanence and character

METALACE is a revelation in Architecture,— there is no other metal fabric woven which even resembles it.

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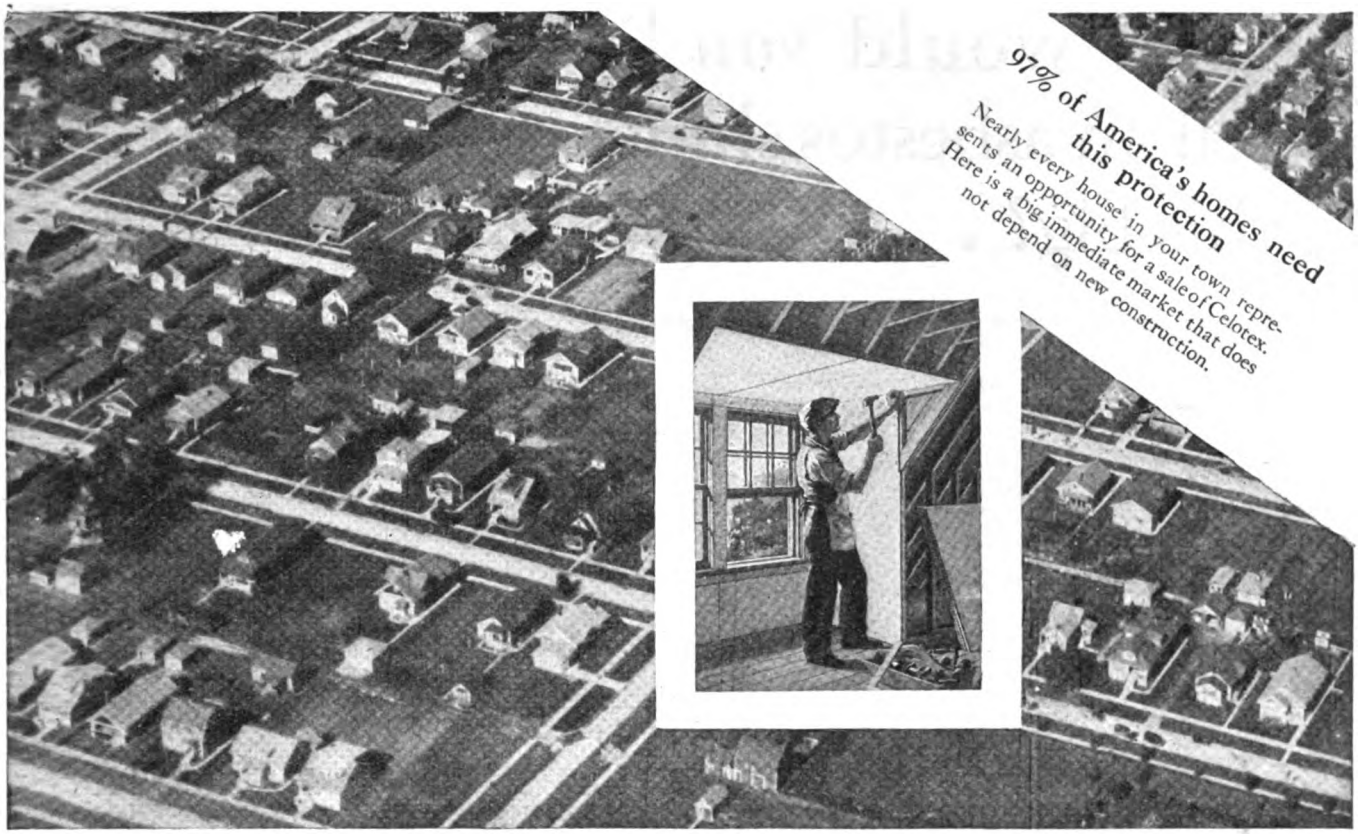
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METALACE

AGENTS IN THE PRINCIPAL CITIES

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Now... to build up your *Winter Business*...

HERETOFORE most of us in the building business have had to depend upon new building.

But now comes an opportunity for builders and carpenters everywhere to get behind a product that can be sold to *every* home ... old or new. It gives you an opportunity to make an extra profit during the dull winter months and to get hundreds of new customers on your books.

That product is Celotex Insulating Lumber.

You don't have to wait for people to build to sell them Celotex. The use of Celotex as attic, basement and garage lining is rapidly spreading over the country. People are wanting to make their present homes more comfortable . . . to get their share of the big savings Celotex makes in fuel bills.

This idea is being featured in Celotex national and newspaper advertising during the fall and winter months.

You can make a good profit on each job and this profitable extra business isn't hard to get. When you explain the many advantages and the low cost of lining an attic, basement or garage with Celotex you are offering your prospects a real service —one they'll be quick to appreciate.

Get in touch with your local lumber dealer. He will be interested in getting some extra business too and will be glad to work with you.

Also send the coupon below for more information about the winter uses of Celotex. It will be the means of increasing your profits several hundred dollars this season.

THE CELOTEX CO., CHICAGO, ILL.
Mills: New Orleans, La.
Branch Sales Offices in many principal cities
(See telephone books for addresses)
Canadian Representatives: Alexander Murray & Co., Ltd.
Montreal, Toronto, Halifax, Winnipeg, Vancouver

CELOTEX
INSULATING LUMBER

THE CELOTEX COMPANY, Dept. **T-252**
645 N. Michigan Ave., Chicago, Ill.
Send more information about Celotex as attic, basement and garage lining.

Name .....

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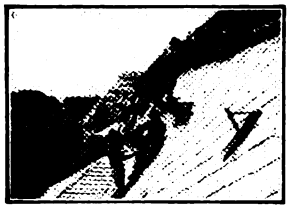
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How would *you* like to sell an asbestos shingle job this big? . . . . . .







Hotel Royal Poinciana, Palm Beach — of Florida East Coast Hotel Co., the famous Flagler System — completely reroofed with Eternit Asbestos Shingles

BEING so big or ultra-fashionable doesn't make a hotel reckless in its expenditures. You can be sure that Eternit Asbestos Shingles were chosen for the Royal Poinciana only after very careful consideration.

Such a hotel is jealous of its appearance, of the comfort, safety and security of its guests. Jealous too of its own judgment and the permanence of its investments. The new Eternit roof is the best possible roofing investment the Royal Poinciana could have made. It should never be necessary to roof this hotel again.

Comes through Florida's worst storms unscathed

200,000 square feet is the approximate area of the Royal Poinciana roof. Fifteen carloads of Eternits were laid right over the old wooden shingles — how evenly and neatly the small pictures show. They are on there to stay. They won't blow up or curl or crack. They are fire-proof. During the recent terrific storms which played such havoc with other roofs, no damage was done to this roof.

Eternit Asbestos Shingles are tougher shingles, stronger, more resilient. Every day builders and roofers are writing that they've never used anything so desirable in every way. Dealers are enthusiastic about minimized breakage and complete customer satisfaction. An Eternit job has never failed to satisfy. The layer-built construction—the long-fibered South African asbestos—the grade of Portland cement—*do* make Eternits the best asbestos shingles on the market today. Coupon will bring all the particulars. Mail it today.

The new million-dollar plant at St. Louis is in process of construction. New distributing points have been added. Quick service is guaranteed.

Eternit

Reg. U. S. Pat. Off.

ASBESTOS SHINGLES

ETERNIT, Inc.
Dept. B, 15th and Locust Sts., Phila., Pa.
Boston—St. Louis—New Orleans—Jacksonville
Please send me full details about Eternits.

Name.....

Address.....

☐ Check square if you are a dealer in building supplies. If you are a builder give dealer's name.

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Plasta-Saver

Lowers the Cost of

STEEL-STRENGTHENED PLASTERING



EVERY builder knows that he can secure a better job of plastering by using Metal Lath.

And now that the North Western 1/8" flat rib PLASTA-SAVER lath has so lowered the cost of this superior Steel-Strengthened Plastering, most contractors feel that they can afford to use it in even their most moderately priced work.

¶ *Shall we send you a sample of the genuine PLASTA-SAVER with specifications?*

NORTH WESTERN EXPANDED METAL CO.

1204 Old Colony Bldg., CHICAGO

NORTH WESTERN

Plasta-Saver FLAT RIB METAL LATH

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WIFCO BLACK



WIFCO CHOCOLATE



WIFCO BROWN

in 6 colors

Colored at the Mill Ready for Immediate Use

A zero weather mortar stronger than any known

Now WIFCO, the super-mortar, is available in the six preferred colors that have heretofore had to be added to ordinary mortar right on the job.



WIFCO GREEN



WIFCO BUFF



WIFCO NATURAL

Color is ground into WIFCO at the mill and is therefore an integral part of it. The ingredients of each sack of WIFCO Super-Mortar are identical with, and are mixed in the same proportions as, those of every other sack containing the same color. The colors will not fade. Neither will they stain masonry.

Thus at one stroke the hazards of deviating from the color sample are avoided—the waste in time, labor and materials is done away with—and the danger of weakening a wall by the dilution which often occurs through the use of colored mortar is entirely eliminated.

No longer will it be necessary to mix color with mortar on the job. WIFCO Super-Mortar comes with the color already in it, scientifically and exactly proportioned. WIFCO is made by formula. Each lot is tested to insure uniformity.

A colored super-mortar—stronger in every way—one that improves with the years—this is what WIFCO Super-Mortar is. It costs less than ordinary mortar and coloring materials. It costs less to mix. There is no waste—mortar left on the mortar board can be used the next day.

Both the compressive and the tensile strengths of WIFCO Super-Mortar are far above all requirements. There is no mortar made anywhere that proves as high as WIFCO.

WIFCO Super-Mortar is strong, like Superior Portland Cement, and is manufactured at the same plant. WIFCO is a plastic mortar. Bricklayers find it works better than any mortar they have ever used.

Write for the facts today. Immediate shipments can be taken care of within a radius of about five hundred miles from Cincinnati.

THE WELLSTON IRON FURNACE COMPANY
JACKSON, OHIO

Super WIFCO Mortar

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zouri key-set store front construction



It is a substantial, straightforward, business-like store front, and has proven its value as a business getter

Zouri Key-Set Store Front Construction

Store front display is one form of advertising in which the actual goods constitute the main selling appeal. How important that they have every advantage of frame and setting!

A Zouri Store Front takes the place of those elements which enhance an advertisement on the printed page. Its substantial, easy lines and rugged copper construction speak quality. It is an evidence of liberal patronage; a standing testimonial that other satisfied customers have built up a flourishing business.



The Zouri Key distributes pressure applied in setting to all points along the rigid copper moulding, greatly reducing the chance of breakage

The contractor, going further into the matter, finds underneath a unique construction that fulfills the promise of its surface beauty. Zouri's special safety features—Indirect Key Setting, Self-Adjusting Setting Block, Drawplate and Reinforcing Bracket—assure him of satisfaction during its installation and its life.

Send for our detail sheets and data book on Zouri. They tell the story

Zouri Drawn Metals Company

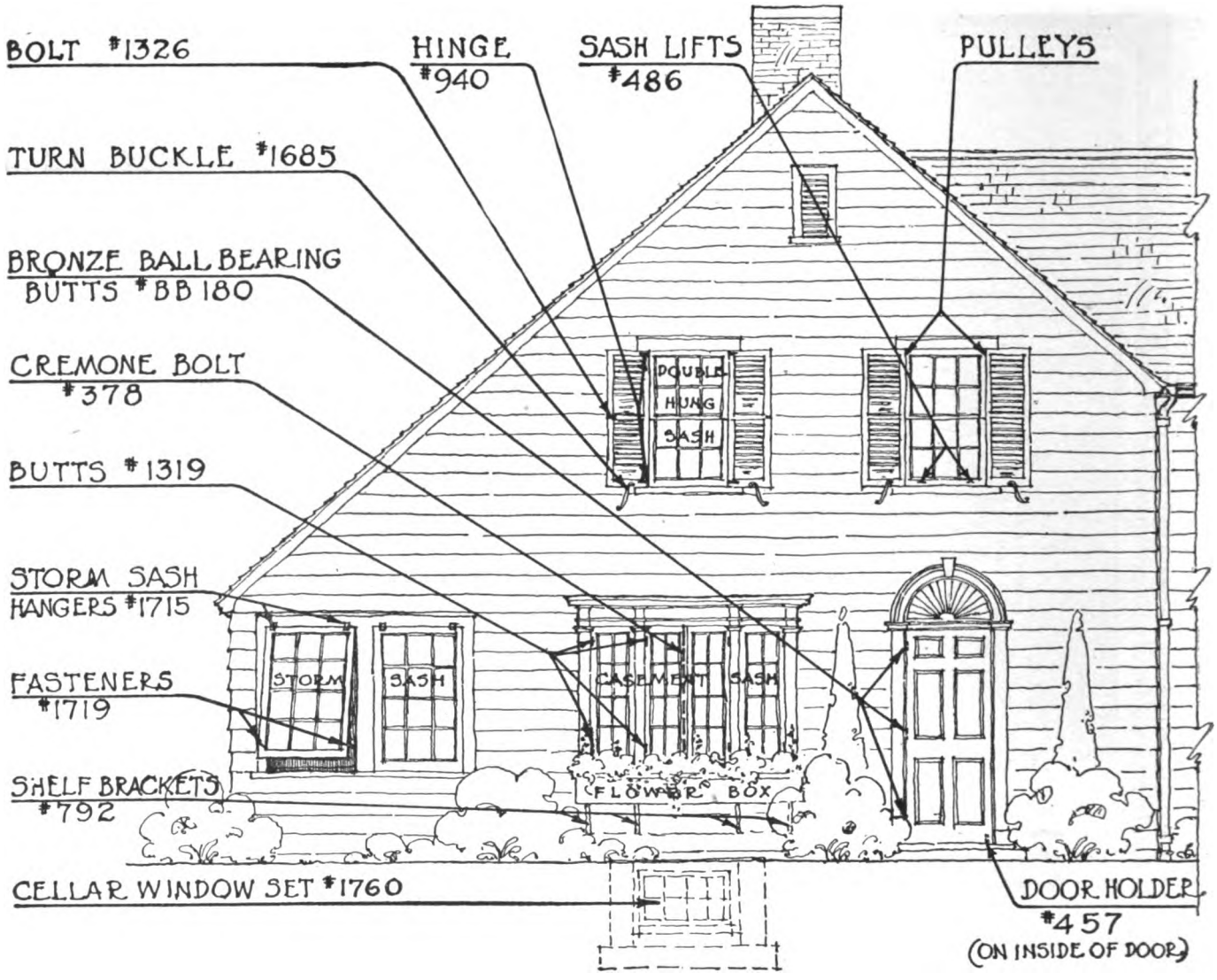
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1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

zouri key-set store front construction

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The selection of correct

Stanley makes a complete line of wrought hardware of the highest quality. Look for this trade-mark as a means of identification.

STANLEY S.W.

THE Stanley Architects Manual gives standard specifications and detail drawings for the selection and installation of builders' hardware. With this useful book it will be easy to choose and specify hardware of the correct weight, finish, and pattern for every need.

STANLEY

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On the inside of the house

On all inside doors:
Stanley Butts No. **241**

On Kitchen and Pantry Dressers:
Doors, Stanley **Butts** No. 289.

Drawer Pulls, No. **470.**

hardware—MADE EASY!

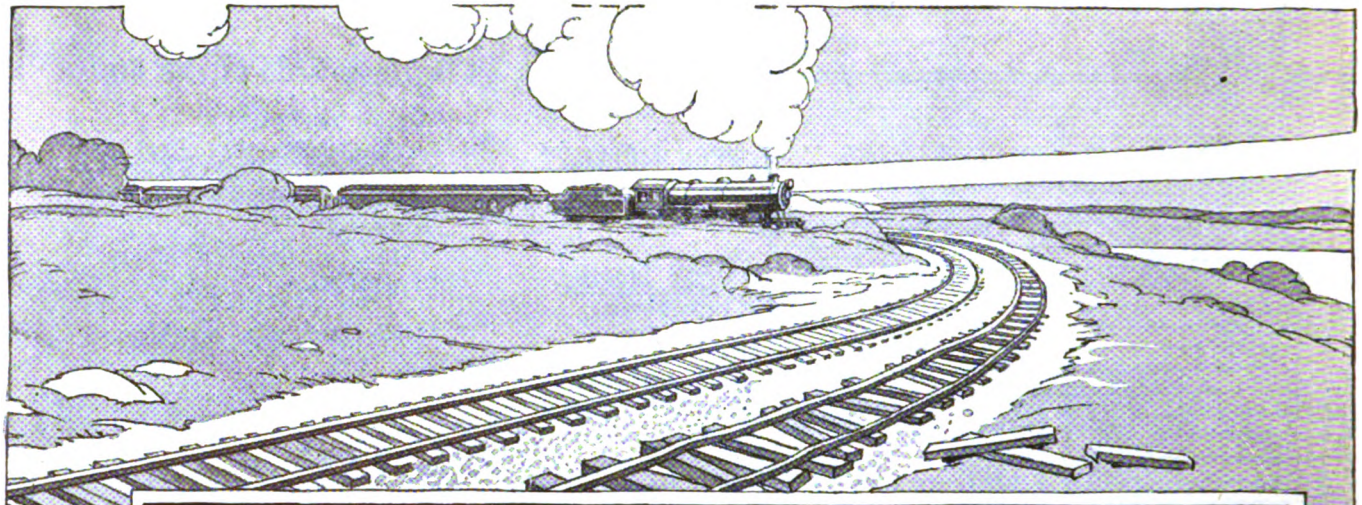
THIS manual of 125 pages, fully illustrated, will be sent to Contractors, Builders, and Architects, free of charge. Send for a copy.

THE STANLEY WORKS, NEW BRITAIN, CONN.
New York Chicago San Francisco Los Angeles Seattle



HARDWARE

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Maybe you're on the wrong track

If you have anything to do with doors that slide—heavy doors or light ones—you know that the door-hangers run on metal tracks. If the track is wrong the doors don't work properly.

Richards-Wilcox door-hardware—hangers, brackets and track—is so well-made, so carefully and scientifically designed, that when it's properly installed it works right; almost never gives any trouble. We *know it's right.*

Lately we've been getting trouble calls; and when we send an engineer to straighten things out, he finds that the job has been "botched" by putting up some other track than ours. There are cheap substitutes being made, and sold to unwary buyers who care more for an extra profit than for an honest value to a customer.

The hangers and brackets have our trade-mark and name stamped on them; so has the track we make. It isn't a real Richards-Wilcox job unless our name is on the hangers, brackets and track.



You'll avoid trouble by being sure of our mark. Look out for any attempt to sell you anything else. The guarantee does not apply unless hangers, brackets and tracks are Richards-Wilcox.

Richards-Wilcox Mfg. Co

"A Hanger for any Door that Slides."

AURORA, ILLINOIS, U.S.A.

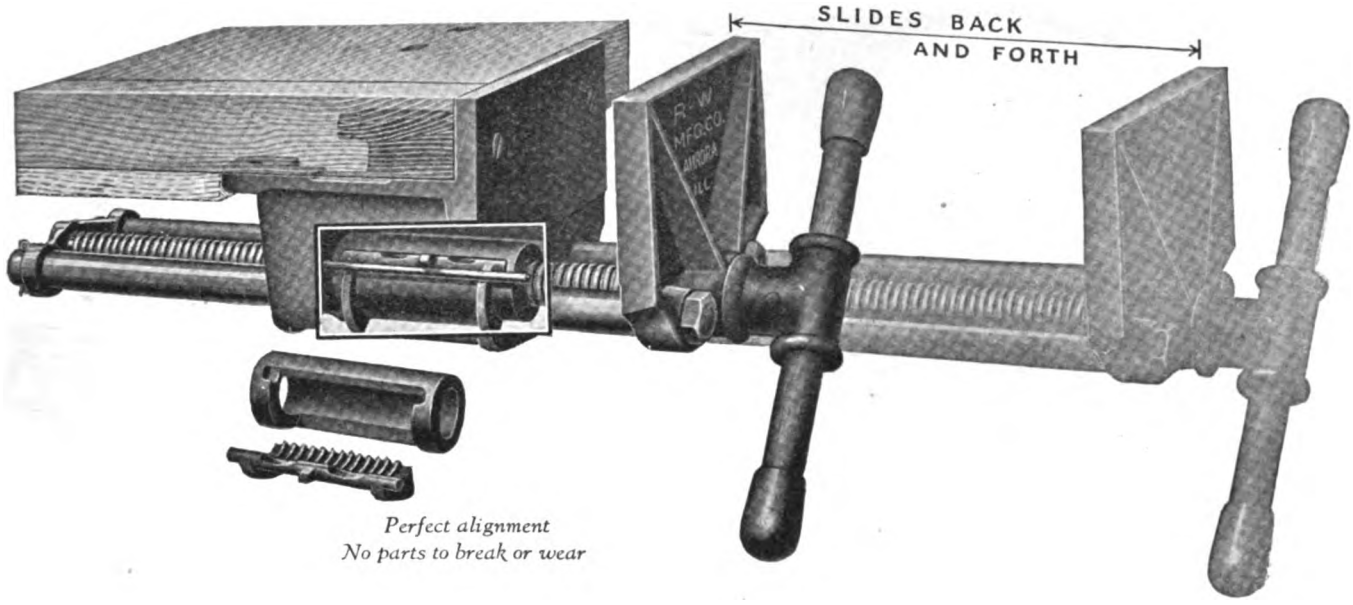
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Montreal · RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. · Winnipeg

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Sliding-Vise

NO MORE ENDLESS TURNING

Rapid Action — Saves Time!



Perfect alignment
No parts to break or wear

YOU can slide the moving jaw back and forth full length of the guide rod without turning. Anyone who works with a vise can see what a great time-saver this is.

When the vise is shut tight, a slight reverse movement of the handle disengages the two-piece, cam-operated nut. Pressure is instantly released; readjustment to accommodate articles of any size quickly made. A simple quarter turn of the handle re-engages the nut, locks the jaw firmly and rigidly in place.

This is a patented vise, originated and developed by R-W engineers, the same men who designed the largest and most complete line of hardware specialties in America.

R-W Rapid Acting Vise

Send for the R-W Catalog, everything illustrated and fully described.

Richards-Wilcox Mfg. Co.

A Hanger for any Door that Slides

AURORA, ILLINOIS, U.S.A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans
Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit
Montreal · RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. · Winnipeg

Largest and most complete line of door hardware made

(969)

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5 Tireless





If you are not making the profits in the building business you think you ought to, isn't it time you stopped to consider that perhaps the reason is because you were not using the modern machinery used by many of your competitors?

A manufacturer of cloth would never think of trying to use hand looms to compete with the modern power machinery which has taken their place.

Where is there an excavation contractor foolish enough to attempt to use hand shoveling in competition with modern steam shovels?

And yet many carpenters and contractors are holding back from applying power machinery to their work and then are wondering why profits are shrinking.

We predict that another five years will see hand-sawing and jointing as completely out of date as hand-weaving and shoveling.

Why not be one of the progressives in your business and take the step now to eliminate most of the costly hand work and drudgery in your building operations?

The Master Woodworker is without question the most efficient and profitable machine ever introduced to the Building Trade.

With it one man can do the work of five expert workmen — five tireless, payless, workers added to your forces at a trifling cost.

Only a small down payment is required and the machine itself will more than save the monthly payments necessary.

MASTER WOODWORKER
MANUFACTURING COMPANY

612 Brush Street, Dept. A DETROIT, MICHIGAN

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Payless Workers

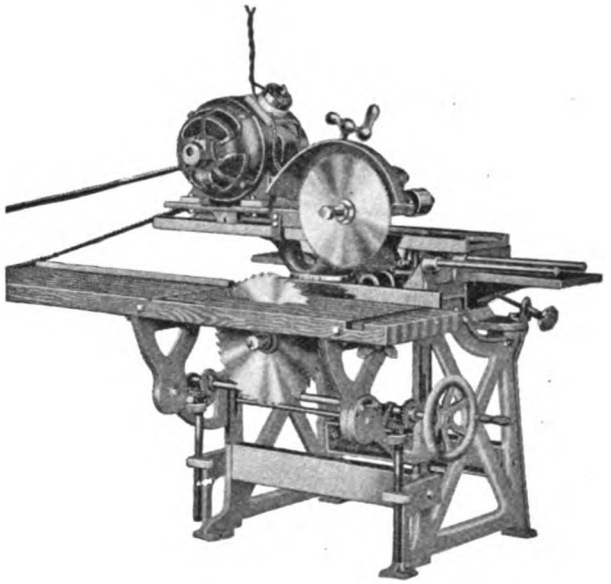
756

756 is the number of our booth at the Power Show, Grand Central Palace, New York, December 6-11

Call and see the Machine demonstrated.

CROSS CUTS





[Model illustrated is the No. 12. Also made in two larger sizes for job and mill work, and in one smaller size.]

What The Master Will Do

It is 12 machines in one—the fastest and most accurate woodworker on the market. It crosscuts, rips, dadoes—does routing, planing, rabbeting, boring, ripping, grinding, stair housing, jointing, moulding, cross-cutting, tenoning, mitering, plowing and mortising.

Not a saw rig, but a complete woodworker. The saw travels at any angle and goes through the work the natural way. It can be transported from job to job in a Ford "pickup".

It will make every cut necessary for house building or inside finishing. Connectable to regular house lighting circuit. Can easily be transported from room to room. Works accurately—no vibration—work at all times visible to the operator. Sturdy and reliable. Will last a lifetime.



DOES MORTISING



DOES PLANING AND JOINTING

Sign and mail this coupon for our big new catalog giving complete information and experiences of users

MASTER WOODWORKER MANUFACTURING COMPANY
612 Brush Street, Dept. A Detroit, Michigan

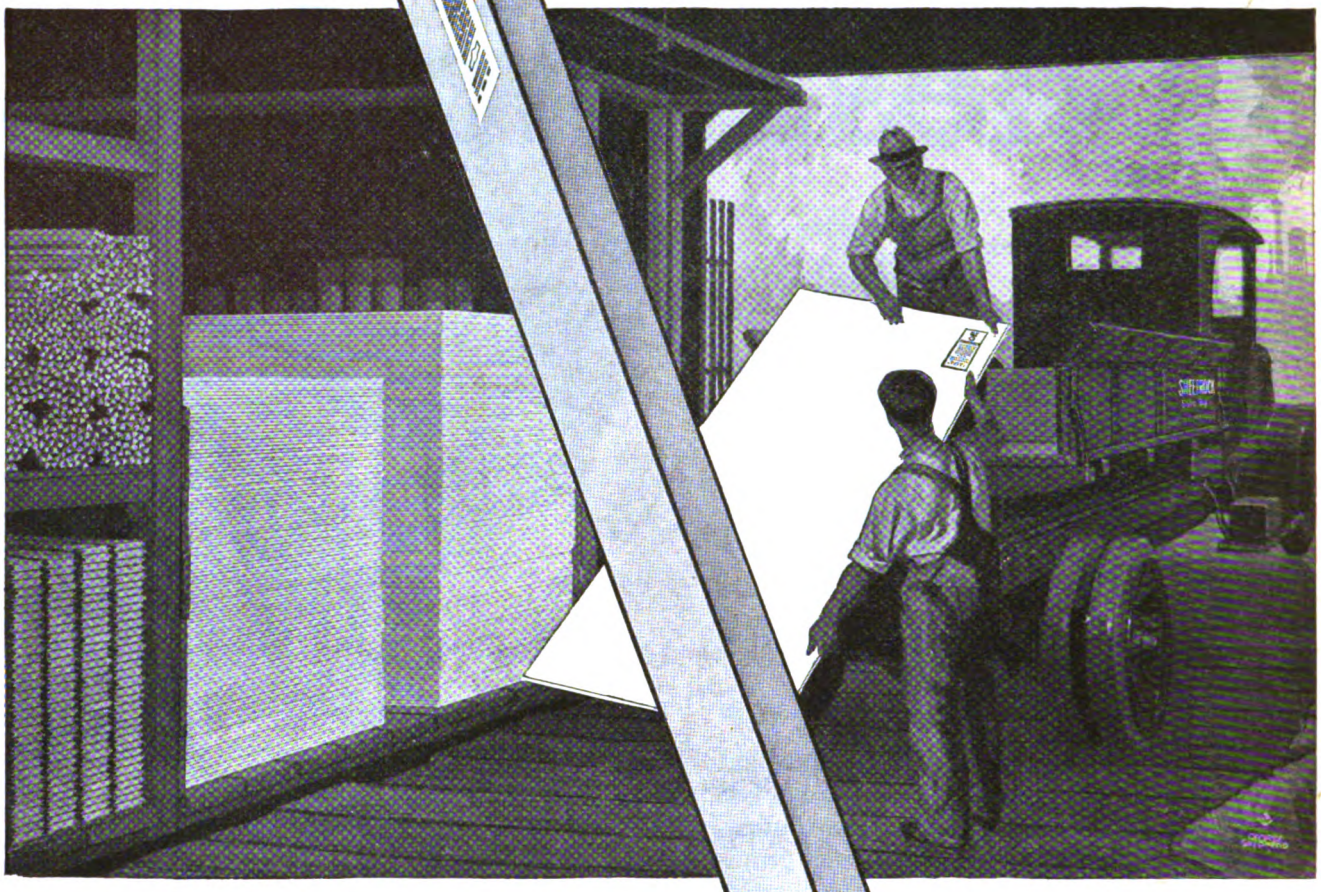
Send me your catalog of all Master Woodworker machines.

*Name*_____ *Address*_____

*City*_____ *State*_____

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The sign of



Sheetrock is inspected and approved by the Underwriters' Laboratories, Inc., as an effective barrier to fire. Send the coupon for samples and full data on the Sheetrock patented Reinforced Joint System and other special information.

Sheetrock comes in Standard sizes: 3/8 inch thick, 32 or 48 inches wide and 6 to 10 feet long.

STANDARD USG BUILDING MATERIALS

SHEET

The *FIREPROOF*

Made by the United

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Positive SURETY

Even the *few cents* difference in cost between a load of Sheetrock and a load of the cheapest of unknown wallboard, exists only on paper. A dozen different factors can wipe away the "saving" even before you get the board nailed up—and usually that's what happens.

Sheetrock, the *fireproof* wallboard, is preferred by thousands of builders, everywhere, because this pioneer product is *known* to be a sure, definite value.

Ample stocks wherever building material is sold—uniformity—firesafety—high insulation—freedom from warp and buckle—rigidity—ease of handling—all these are positive and sure with Sheetrock.

For new construction or old—North, South, East or West—Sheetrock is the preferred wallboard.

There *must* be reasons, and the reasons *must* be important! May we explain them to you, and send you a sample of Sheetrock? Use the coupon.

UNITED STATES GYPSUM COMPANY
General Offices: Dept. 3, 205 West Monroe Street, Chicago, Illinois

CLIP AND MAIL THIS COUPON TODAY!

U. S. Gypsum Company, Dept. 3, 205 West Monroe Street, Chicago

Please send me your data on new Sheetrock Reinforced Joint System and other special information on Sheetrock.

Name.....

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Address.....

Reg. U. S. Pat. Off.

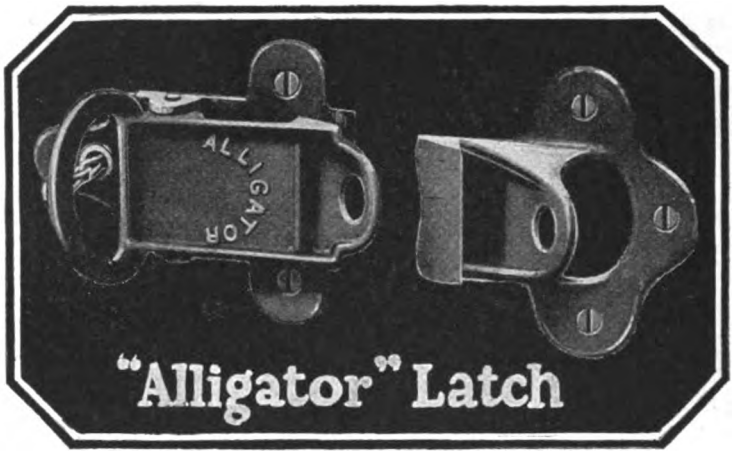
ROCK WALLBOARD

States Gypsum Company

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Allith-Prouty

Locking Devices



Detroit and automobiles; Rochester and clothing; Chicago and meat; New York and money; Paris and perfumes; Los Angeles and real estate; Danville and door hardware.

People like to associate places with products. They have learned to say "Danville and door hardware" through the fact that for over twenty - five years Allith-Prouty Company has been making products fine enough for the most exacting architect and priced fair enough for the most economical home owner.

A-P locking devices are no exceptions to this rule. Certified malleable where strain may break less carefully made parts; steel where lighter weight is essential—both materials finished and put together with a workmanship unsurpassed in the industry.

Five pages in the A-P Catalog No. 95 are used to describe and illustrate these worthy products. Make this catalog your "Man Friday" the next time you figure a job or buy a stock. It is free to architects, contractors and dealers. Write for it on your letterhead.

OUR CATALOG SHOWS

Alligator Snap Latches; certified malleable; 2 sizes; strong; durable; equipped for padlock.

"Drawtite" door bolt; certified malleable; fits single, double or parallel doors; equipped for padlock.

All steel chain bolt; 2 sizes; reversible for doors swinging in or out.

Cane Bolt; all steel; 5 sizes; fits top, bottom or side of door.

Cremone Bolt; certified malleable with steel rod; 12 inch adjustment; 6 sizes.

ALLITH-PROUTY COMPANY

DANVILLE, ILLINOIS

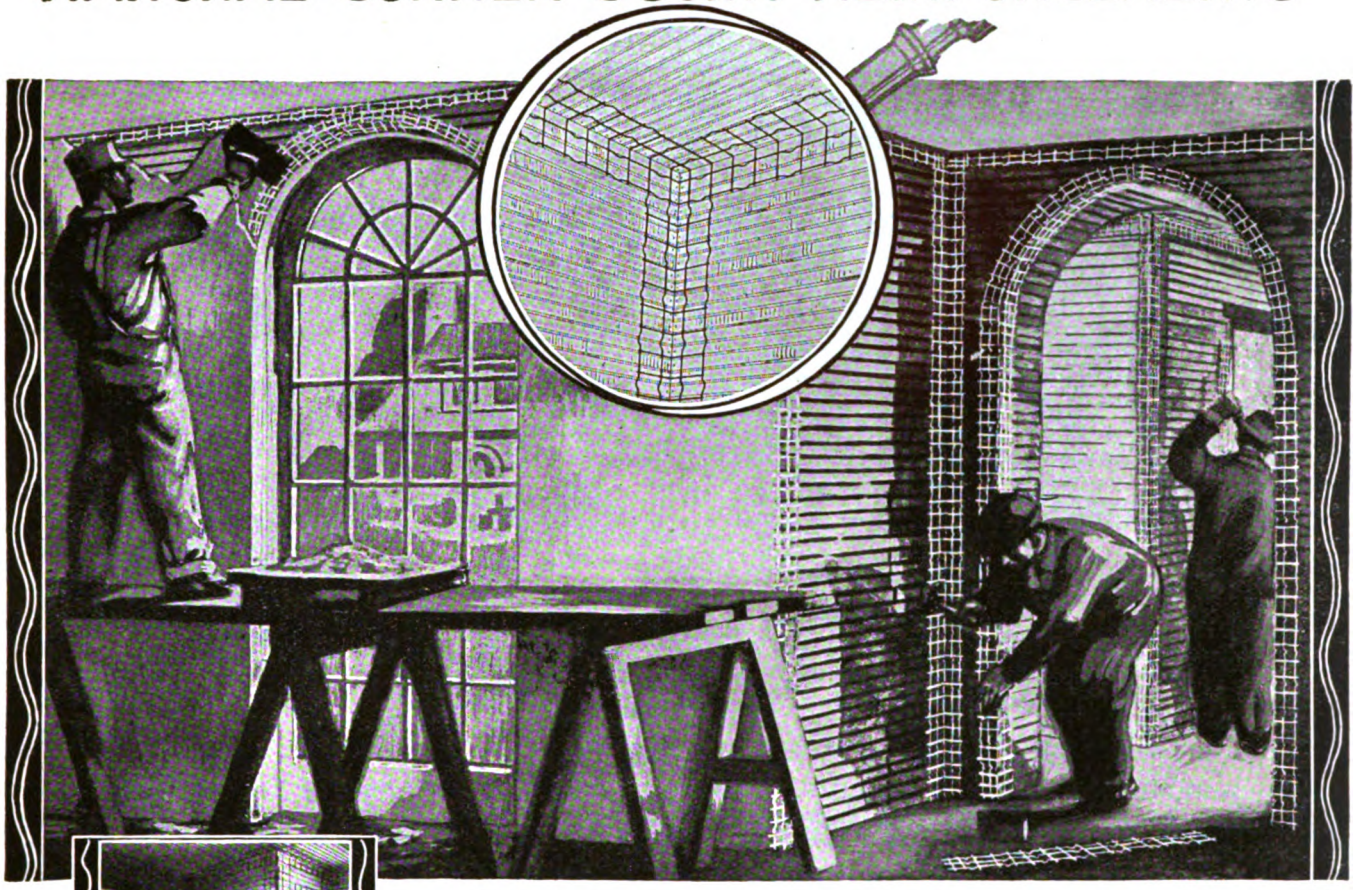
Manufacturers of

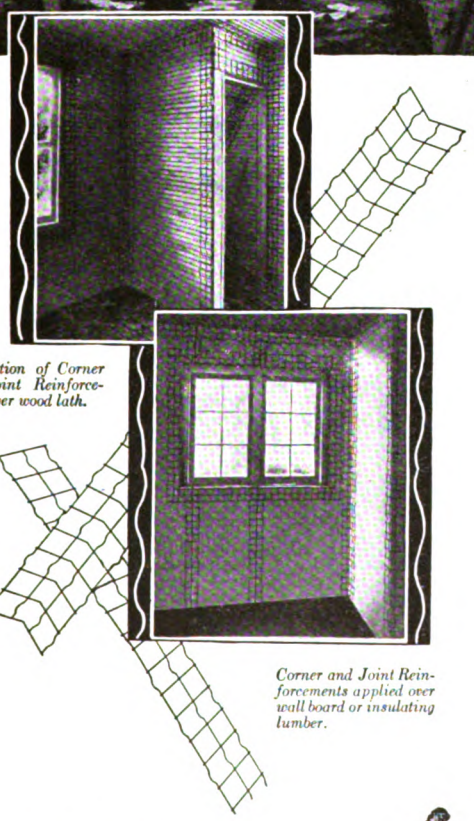
Garage Door Hardware
Fire Door Hardware
Spring Hinges
Overhead Carriers
Rolling Ladders
Door Hangers

Manufacturers of the finest line of Garage Door Hardware

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Prevent Corner and Joint Cracks *with* NATIONAL CORNER & JOINT REINFORCEMENTS





Application of Corner and Joint Reinforcements over wood lath.

Corner and Joint Reinforcements applied over wall board or insulating lumber.

NATIONAL Steel Fabric Corner and Joint Reinforcements, when plastering over wood lath, insulating lumber, or wall board, prevent corner and joint cracks and assure better construction.

They strengthen the framework as well as the plaster, automatically insuring the application of a sufficient thickness of plaster.

The conveniently handled 50-inch lengths of Corner and Joint Reinforcements are quickly and easily nailed in all angles, around all frames, and across all butted joints. The wire fabric becomes embedded in the plaster.

Steel Fabric Corner and Joint Reinforcements cost only about $15 for the average house, less than the cost of repairing one break in plaster due to lack of reinforcement.

That's why Contractors are using Corner and Joint Reinforcements on all wood lath or other non-reinforced base jobs.

National Steel Fabric Corner and Joint Reinforcements are a network or "fabric" of heavy, galvanized (non-rusting) steel wires, electrically welded on 2 inch centers, embodying an automatic furring device (crimps). Each leg of each angle of Corner Reinforcement is 3 inches wide. Joint Reinforcement flat strips are 4 inches wide. Both come in 50-inch lengths compactly crated, 120 pieces to the bundle.

Write for Descriptive Literature

NATIONAL STEEL FABRIC

NATIONAL STEEL FABRIC COMPANY, 707 UNION TRUST BLDG., PITTSBURGH, PA.

WORLD'S LARGEST MANUFACTURERS OF WELDED STEEL FABRIC

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Before the Days of the Irish Boss

DURING the reign of the infamous Nero the palace of the Emperor on the Palatine Hill was supplied with water from the Claudia aqueduct. Lead pipe was probably used to convey it from the lofty arches, where the masonry work ended, to the various buildings. In Rome at this time there were altogether 39 ornamental fountains and 591 public water basins supplied day and night.

Rome was far wiser in its sanitary provisions than were the Europeans of later years, when plagues like the Black Death wiped out whole communities.

It was only during the present century that a process for making seamless brass tubing was perfected and it was not until 1917 that the Bridgeport Brass Company developed the electric furnace method of melting brass which makes possible the uniformity of mixture always found in Bridgeport Plumrite brass pipe and Bridgeport tubular plumbing goods. The progress made by the foremost brass companies in Connecticut during the past half century is greater than the total contribution to the industry of the whole world prior to that time.

One in a series of advertisements outlining the early development of plumbing ideas. A complete folio of this History of plumbing will be sent on request.

"Bridgeport" BRASS TRADE CO. MARK
Plumrite
WE MAKE
Ledrite Brass Rod
Phono-Electric Contact Wire
Plumrite Brass Pipe
Phono-Hi-Strength Wire
Tubular Plumbing Goods
Condenser Tubes-Sugar Tubes
Brass, Bronze and Copper Sheets
Brass, Bronze and Copper Tubes
Auto, Bicycle and Pressure Pumps
Auto Accessories-Stampings
Engravers' Copper-Specialties
Screw Machine Products
Pressed or Drawn Products
Oil and Grease Guns

Bridgeport Brass Company
BRIDGEPORT - CONNECTICUT
NEW YORK PHILADELPHIA CHICAGO CLEVELAND DETROIT

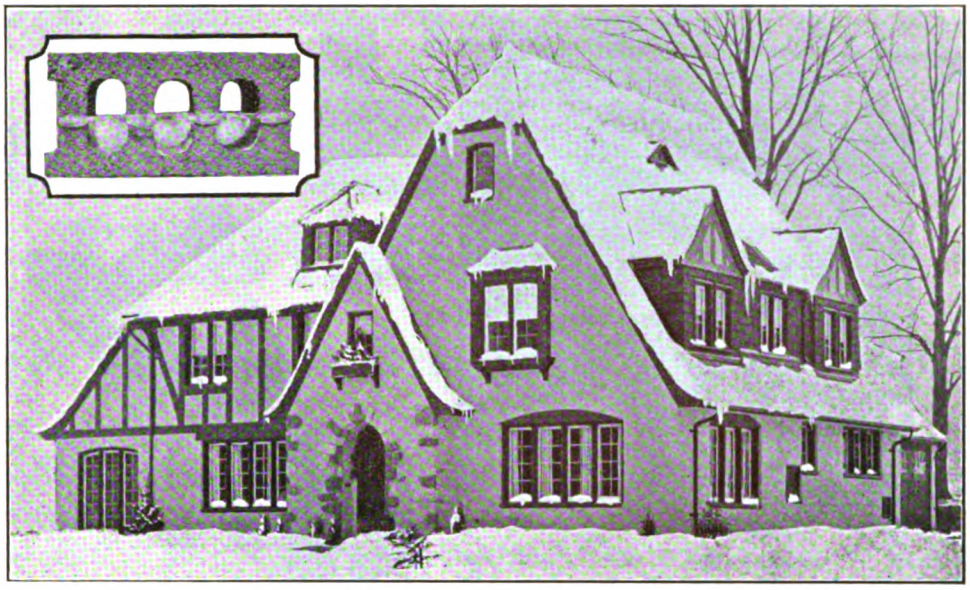


Electric Furnace Brass

Bridgeport Plumrite

Member Copper and Brass Research Association and Trade Extension Bureau

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The insert shows a Cinder Concrete Building Unit partly covered with ice during a freezing and thawing test made for the City of Toronto. The test was made March-April, 1925, at Toronto, Canada. The increase in compressive strength of the Units after twenty alternate freezings and thawings was 25%.

Make the Homes You Build Time and Weather Proof

Walls of Cinder Concrete Units will permanently insulate the houses you build against sudden temperature changes and dampness, and make them cooler in summer and warmer in winter.

The walls themselves are temperature regulators. In the modern Cinder Concrete house, no lathing is required. Plaster is applied direct to the inside surface and stucco to the outside surface of the Unit wall.

Resistance to adverse climatic conditions is one great advantage of Cinder Concrete Unit walls, and recognition of this desirability is widespread. The Units can be laid up in practically all weathers.

The wall structure of the Cinder Concrete house hardens and strengthens with age. Freezing and thawing actually increase compressive strength, and permanent satisfaction is assured both owner and builder.

Of particular interest to builders is the series of tests conducted by nationally known authorities on Compressive Strength, heat and cold resistance, sound proofing, and fire resistance. Details of these tests and their results will be forwarded to builders immediately upon request.

All plants manufacture and sell for building purposes

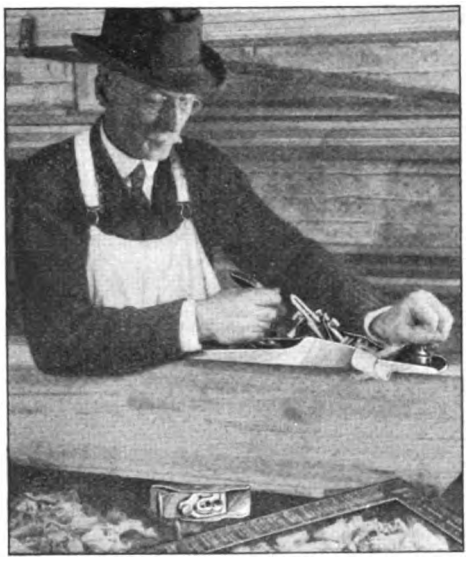
CINDER CONCRETE BUILDING UNITS

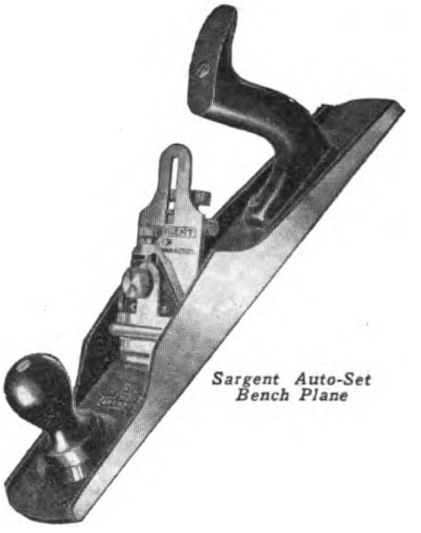
Manufactured under Straub and Bo Patents

Address all inquiries to Department "B"

NATIONAL BUILDING UNITS CORP.
1600 ARCH STREET-PHILADELPHIA

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Sargent Auto-Set Bench Plane

Adjusted for fine or coarse cut without removing a single part

QUICK adjustment is a feature of the Sargent Auto-Set Bench Plane. All unnecessary parts have been eliminated. No waste motions here. When once set, the clamp may be removed to get the cutter out for sharpening and when replaced it will always return to its original position until reset. The clamp is easily adjusted by a regulating screw—close to the cutting edge when a fine cut is required, away from the cutting edge when a coarse cut is wanted.

The lateral adjustment is secured without removing the hand from the handle. The vertical adjustment, obtained through a direct acting thumbscrew at the back of the cutter, is positive and rapid. All in all, the Auto-Set is years ahead of any other bench plane now made.

See it at your dealer's. Feel the difference in weight. It's as much as two pounds lighter than some of the older type planes. You can use it for hours without getting fatigued.

SARGENT & COMPANY, *Manufacturers* 52 Water Street, New Haven, Conn.
Please send, without cost to me, the booklets on Sargent Planes and Squares.

Name.....

Address.....

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SARGENT
Tools & Hardware

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JAEGER
TILTING MIXERS
Mix Concrete in Zero Weather

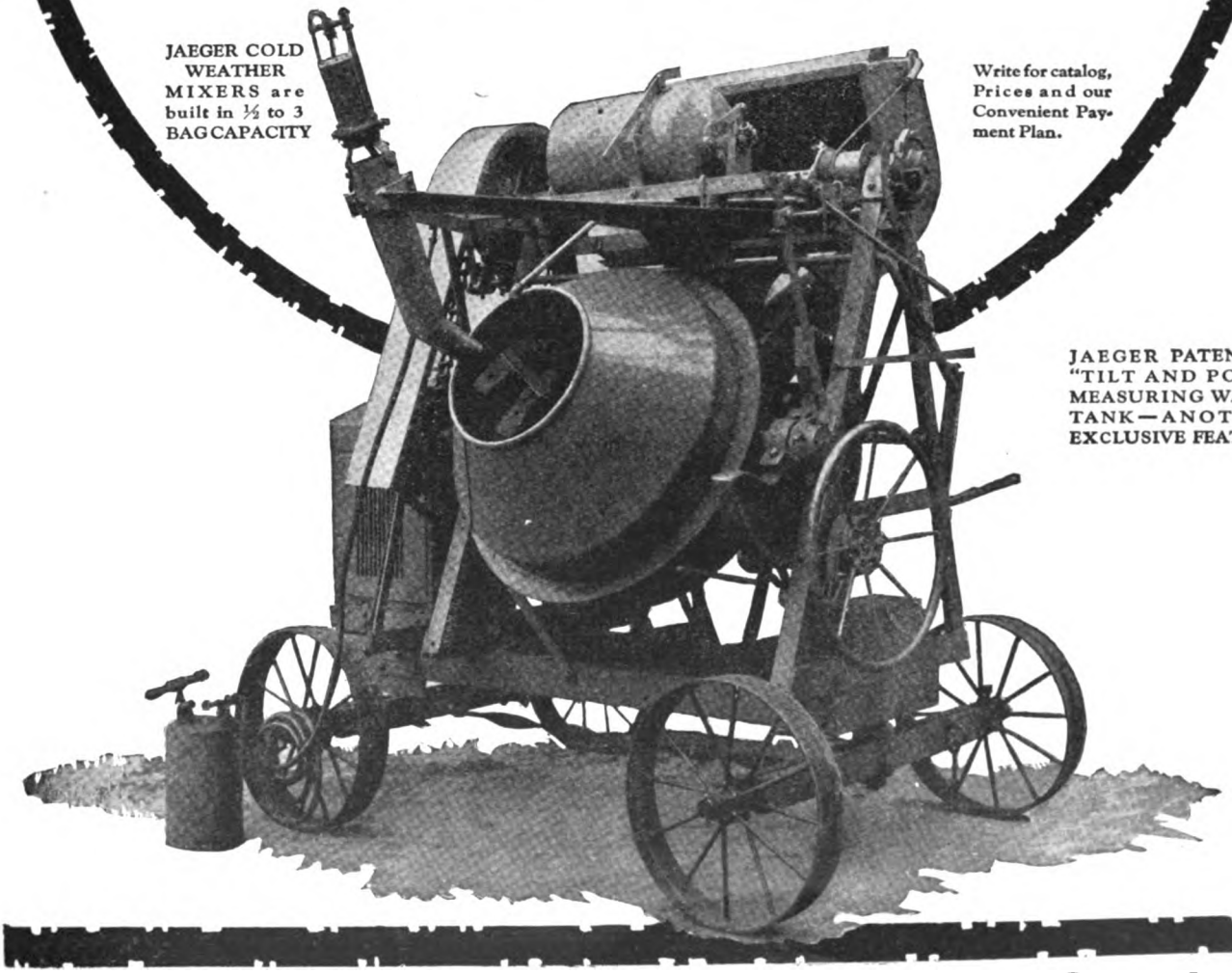
IT IS no longer necessary to lay up your JAEGER in cold weather or use slow, costly methods of heating materials. Simple, inexpensive HEATER ATTACHMENTS are now furnished for all sizes of JAEGER MIXERS, from the little sidewalk size to the heavy duty outfit for skyscrapers. With this heater equipment you can economically mix concrete so hot that it stays warm in the forms — 70° to 90°. Cuts Winter mixing costs in half.

THE JAEGER MACHINE COMPANY
216 DUBLIN AVENUE COLUMBUS, OHIO

Branch Offices — Warehouses — Service in 100 Principal Cities

JAEGER COLD WEATHER MIXERS are built in ½ to 3 BAG CAPACITY

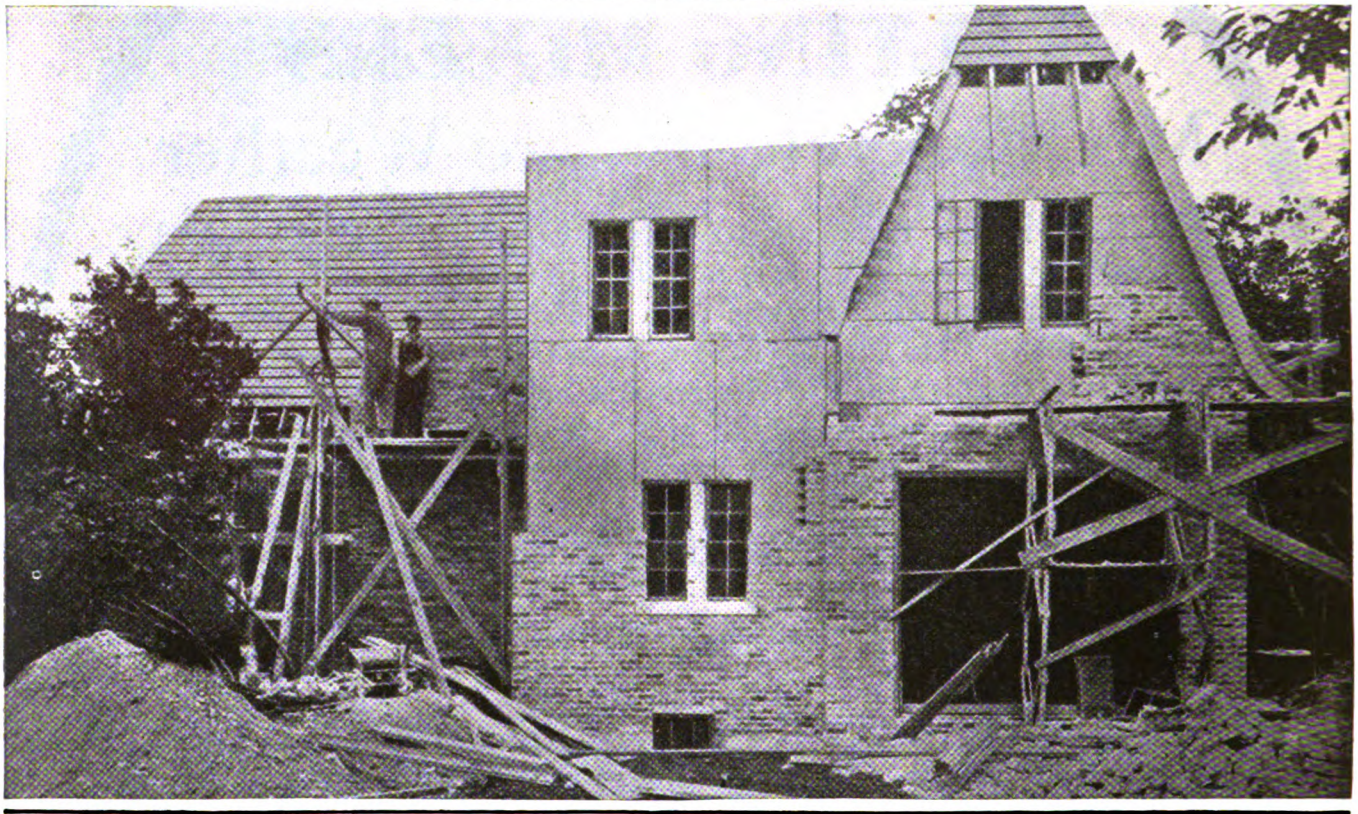
Write for catalog, Prices and our Convenient Payment Plan.



JAEGER PATENTED "TILT AND POUR" MEASURING WATER TANK — ANOTHER EXCLUSIVE FEATURE

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Fenestra Preferred ~~~ Model Homes Prove It!



Fenestra Casement Windows

Liberty Magazine Model Home, Milwaukee, Wisconsin. Owner, Richard S. Davis, Architect, Russell Barr Williamson



Front view of Milwaukee Model Home shown above



Liberty Magazine Model Home, Spokane, Washington

FOR model homes the country over—each one built as an example of what a home should be—you'll find Fenestra Steel Casements preferred by builders who sense the built-in value of nationally-known materials.

That's why the prize-winning homes sponsored by Liberty Magazine in Milwaukee and Spokane are Fenestra-equipped throughout. That's why Fenestra Casements have been specified for 360 better-built homes designed by the Home Owners' Service Institute for erection this year in 28 American cities.

Every item used in the construction of such homes must be a leader in its line—must bespeak such outstanding quality that thousands of potential home-owners, viewing these houses, will recognize them as models to be followed.

Fenestra Casements meet the high, exacting standards of model-house construction, bringing to every home exquisite charm, permanent utility, and sturdy durability at moderate cost.

These Fenestra advantages, embodied in the homes you build, will help to sell your houses more quickly and more profitably. Write for Fenestra installation details.

DETROIT STEEL PRODUCTS COMPANY, C-2252 E. Grand Boulevard, Detroit, Mich.

Factories at Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada.

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

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— some detail of a job being figured — usually wanted most when not at hand—can often be acquired quickly by referring to the Selected List of Manufacturers' Literature that appears in every issue of BUILDING AGE and NATIONAL BUILDER. See pages 150, 152, 154, 156, 158, 160, 162, 165, 166, 168, 170 of this number.

These lists are comprehensive, and the carefully prepared catalogs and booklets of leading manufacturers contain specific information—exactly the sort you may need badly at times.

Consult the list, jot down the numbers wanted on the coupon, and the specified literature will be sent you promptly—free of charge.

Service Dept.

BUILDING AGE and NATIONAL BUILDER

243 West 39th Street **New York, N. Y.**

COUPON

BUILDING AGE AND NATIONAL BUILDER, 243 W. 39th St., New York.

Gentlemen: Please send me, without charge, unless otherwise noted, the booklets shown in your "Selected List of Manufacturers' Literature," the numbers of which I have noted below:

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No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

Name .....

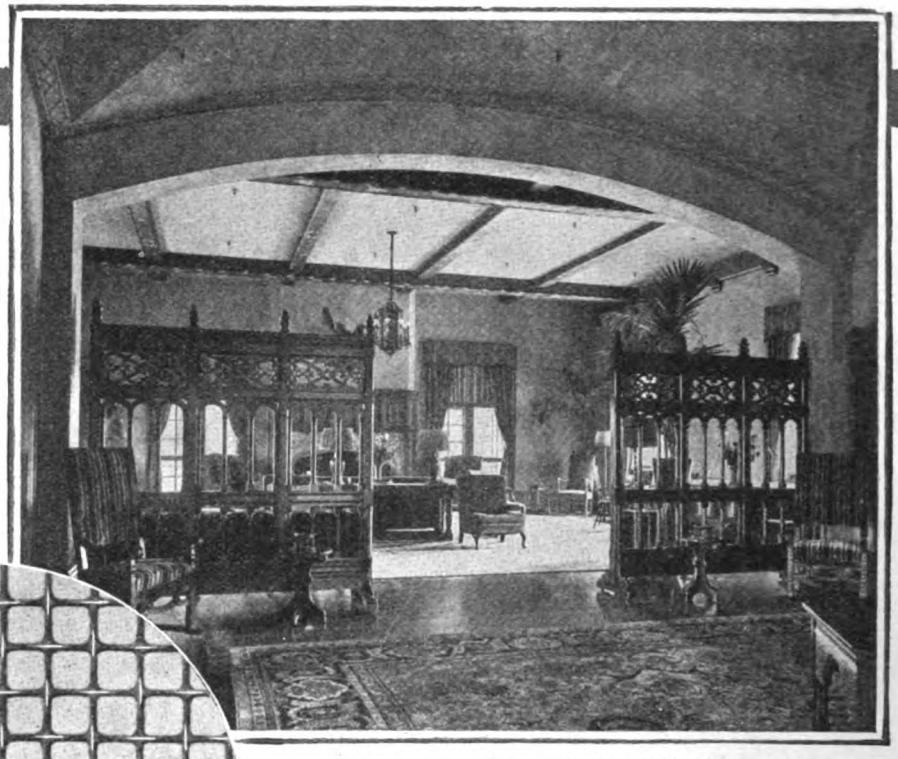
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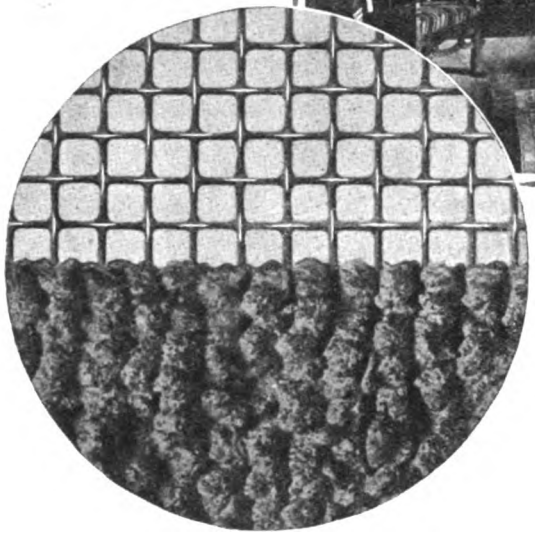
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Interior view of Winged Foot Golf Club at Mamaroneck, N. Y. Clifford C. Wendehack, architect; Smith & Leo, contractors.

For Those Who Value Their Reputations

The beauty of the Winged Foot Golf Club at Mamaroneck, New York, is due in part to the use of Clinton Wire Lath in its construction. Both beauty and durability are assured with this material as a base for stucco and plaster work. That is why it was specified by Clifford C. Wendehack when he drew the plans for the Winged Foot. And that is why Clinton Wire Lath has been used for many other famous buildings by architects who prize their reputations.

A more pleasing, lasting finish is provided by Clinton Wire Lath. Its meshes furnish both vertical and horizontal support to the plaster, thus providing a DOUBLE KEY. Work is accelerated and simplified as the plaster keys no matter what direction of stroke is used in trowelling.

In the Boston Theatre built in 1856, the old Astor House in New York City and other buildings torn down after more than half a century, the Clinton Wire Lath used in the construction was found still in perfect condition.

Write for our booklet containing useful information.

WICKWIRE SPENCER STEEL COMPANY

General Office: **41 East Forty-second Street, New York**

Western Sales Office: **208 South LaSalle Street, Chicago**

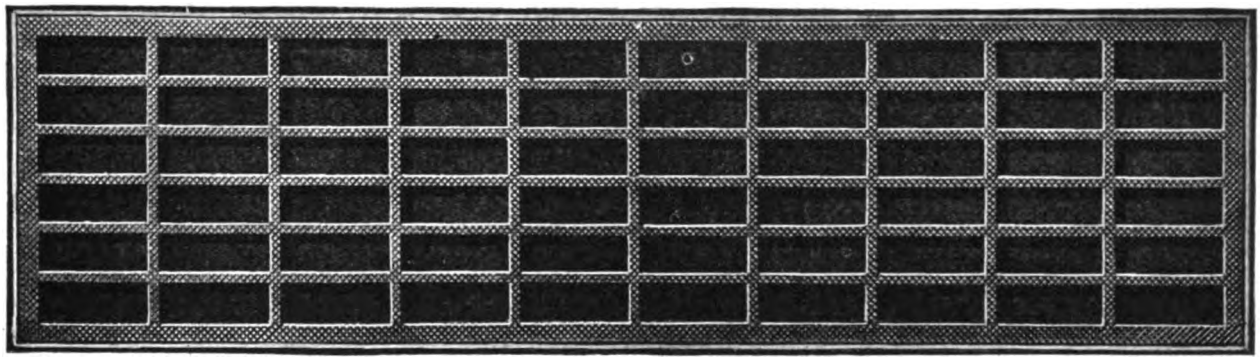
WORCESTER BUFFALO CLEVELAND DETROIT
SAN FRANCISCO LOS ANGELES SEATTLE

WICKWIRE SPENCER PRODUCTS

WICKWIRE SPENCER STEEL

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Cold Facts On T&B STYLE "C" COBBLE Cold Air Face



One . . . The design permits the largest free air opening consistent with strength, safety and appearance.

Two . . . Being of cast iron it has the desirable depth to the cross barrings so obviously missing in stamped steel faces.

Three . . The rolled edge and narrow rim assure a snug, even, easy setting without recessing.

Four . . . The finish—Tanbo Antique—harmonizes well with all color schemes, therefore is suitable for any room.

Five . . . Wear comes only on the "Tips" of the cobbles—the finish lasts indefinitely.

Six . . . As this style face is not attached in any way, it is easily removed to allow a complete cleaning of the cold air box.

Seven . . The advantages of T. & B. Style "C" Cobble Cold Air Face are apparent.



Style 80 Cobble Register

Style 80 Cobble Register is a worthy companion piece for Style "C" Cobble Cold Air Face. This register embodies the same characteristics of design that place Style "C" Cobble in a class by itself. Furthermore the miniature cobbles prevent the foot from slipping and provide extra radiating surface—keeping the register from becoming overheated.

The coupon below will bring you full information regarding these products

TUTTLE & BAILEY MFG CO.
Makers of Registers and Grilles for 80 Years

441 LEXINGTON AVENUE
NEW YORK CITY

36 Portland St., Boston
704 East 18th St., Kansas City
1123-29 W. 37th St., Chicago
Bridgeburg, Ontario, Canada

TUTTLE & BAILEY MFG. CO. B.A.
441 Lexington Ave., New York City

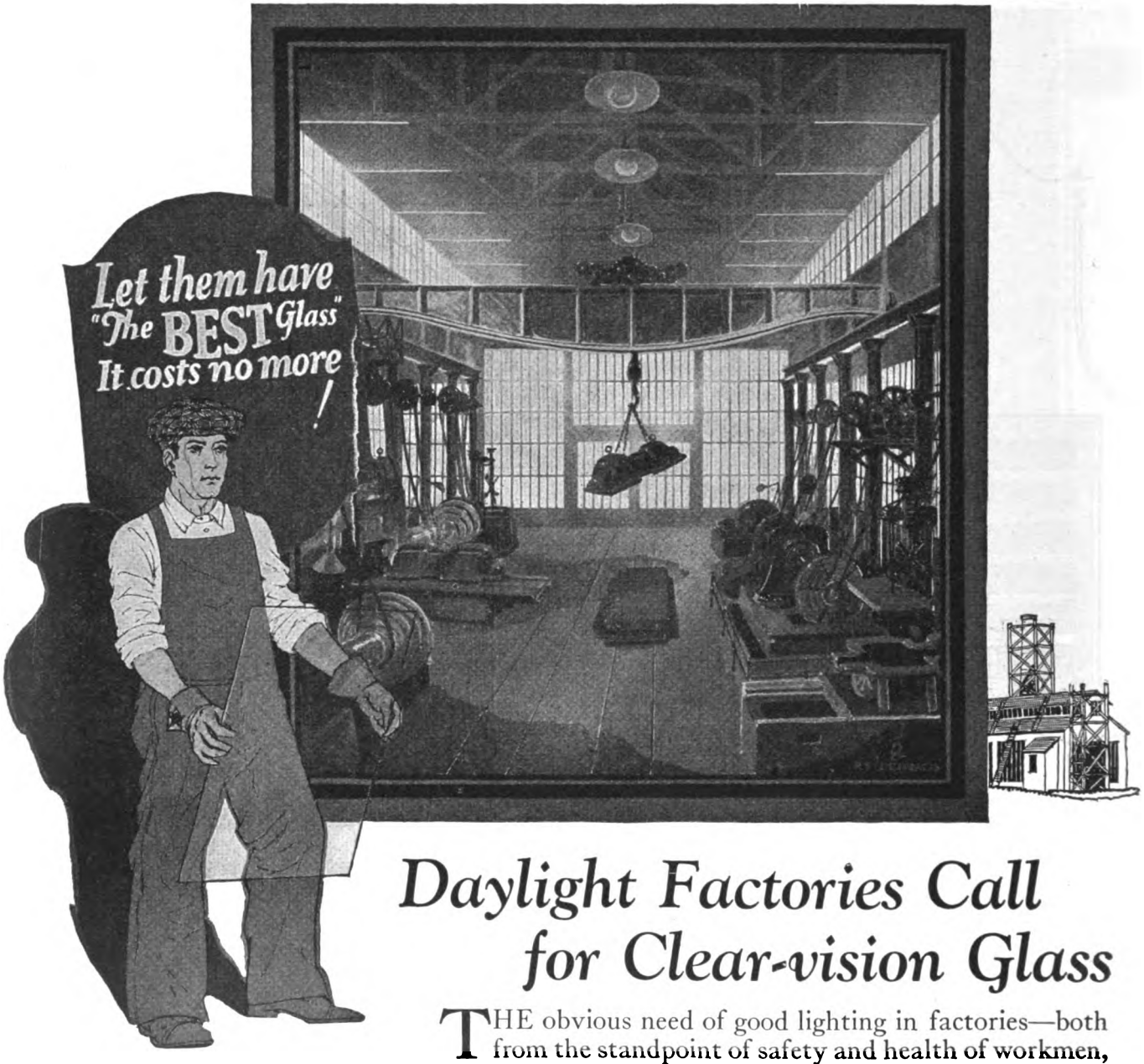
Gentlemen:

Kindly send full information regarding Tuttle & Bailey Style "C" Cobble Cold Air Face—also Style 80 Cobble Register.

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Address_____

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Daylight Factories Call for Clear-vision Glass

THE obvious need of good lighting in factories—both from the standpoint of safety and health of workmen, as well as efficiency and rate of production—has recently forced its attention on progressive manufacturers.

Whether bearings, buttons or biscuits are manufactured, the sunlit factory rightfully claims superiority of its product. The pure unmixed light coming through perfectly clear window glass promotes accuracy, cheerfulness and cleanliness—forerunners of better products.

When providing window glass make sure that it is free from common defects and that it has uniform flatness and proper tensile strength. All these characteristics of better window glass are obtained in the factories of the American Window Glass Company by advanced methods of manufacture which lead the world.



Fine long rye straw is used for packing "The BEST Glass" to minimize breakage.

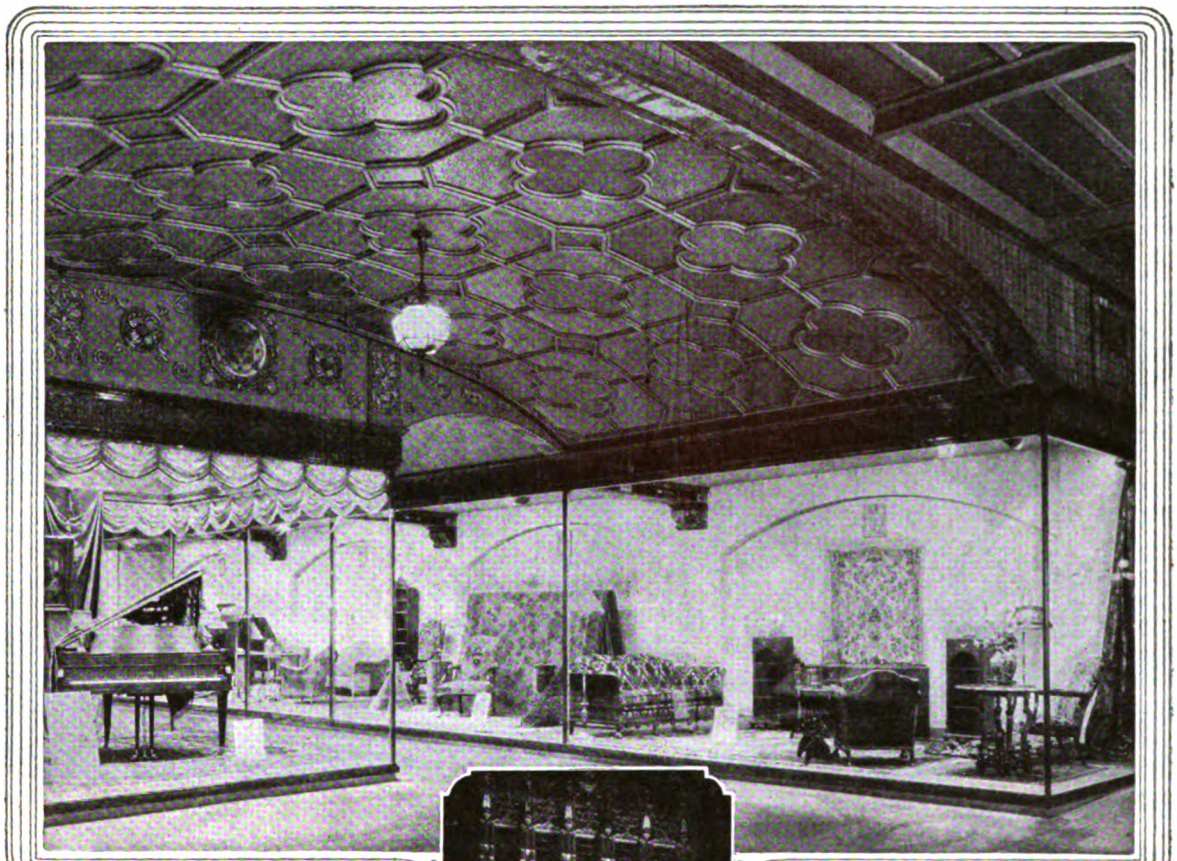
AMERICAN WINDOW GLASS CO. PITTSBURGH PA. U.S.A.

AMERICAN WINDOW GLASS CO.

The BEST Glass — World's Largest Producer of Window Glass — The BEST Glass

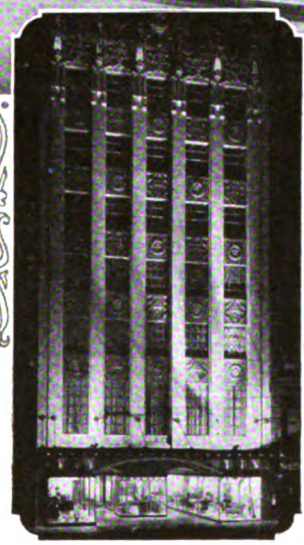
GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES

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G. A. Ensenberger and Sons Building, Bloomington, Illinois.

A. L. Pillsbury, Archt. P. R. Hooton, E. Roozen, Assoc's. Simmons-Dick Co., Contr.

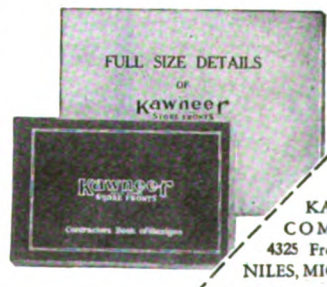


"Quick Action" is an essential when remodeling a store front. If the contractor can finish the job without delay he is making money for the merchant and future business for himself.

KAWNEER SOLID COPPER STORE FRONT CONSTRUCTION can be obtained promptly from our branch office and jobber's warehouses located in the hub of almost every industrial center.

THE
Kawneer
COMPANY
NILES, MICH.

Branch Offices and Sales Agencies in 90 Cities



THE
KAWNEER
COMPANY
4325 Front Street
NILES, MICHIGAN

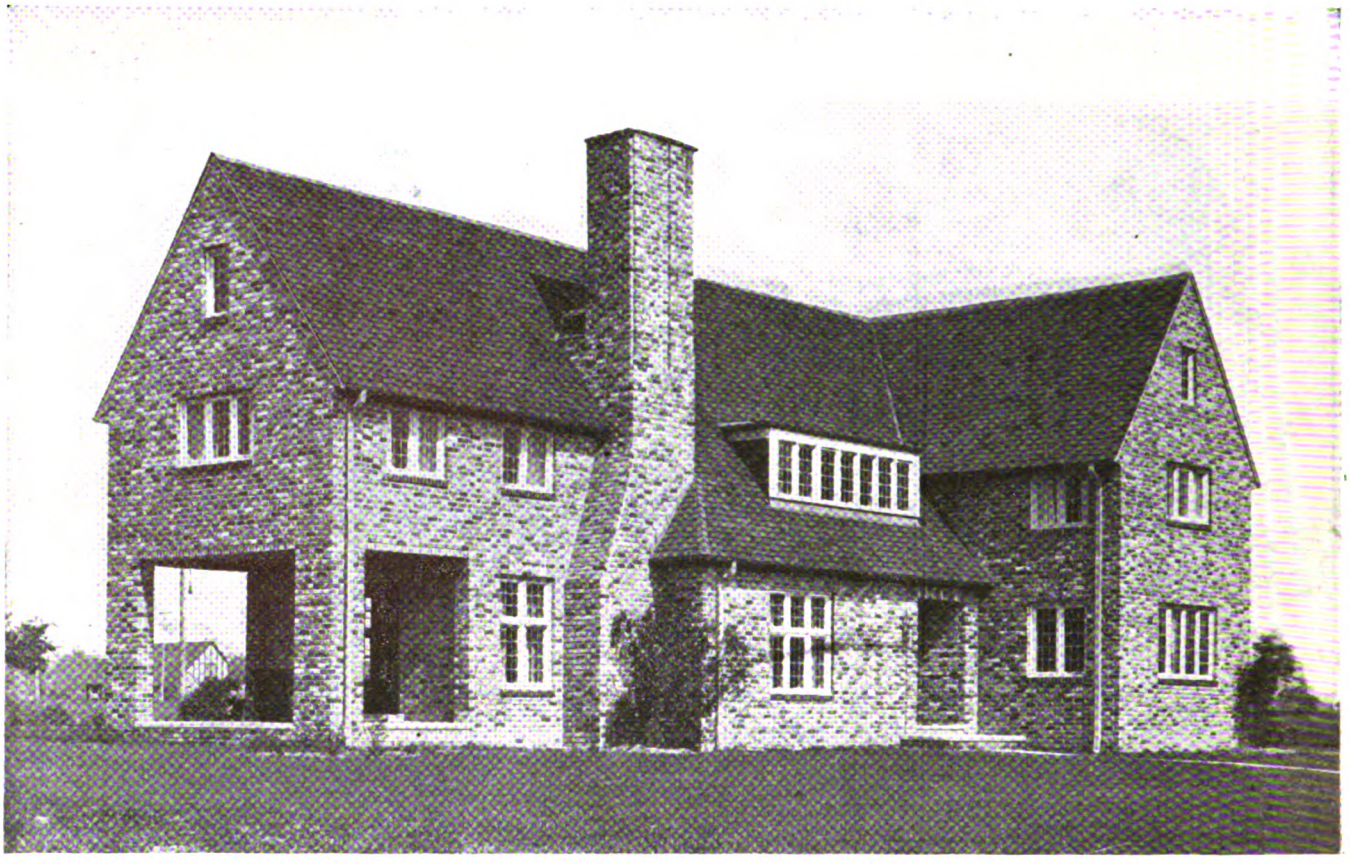
Check literature desired:
☐ Contractor's Book of Designs,
☐ Contractor's Full Size Details.

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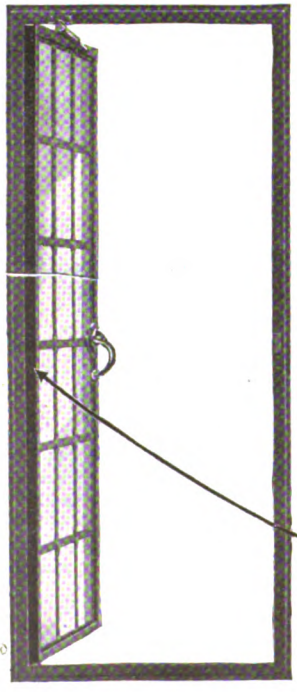
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Fred A. Healy Residence, Birmingham, Mich.
D. Allen Wright, *Architect*

Steel Windows of Known Quality Help the Builder Sell



Progressive builders realize that casement windows are more and more becoming a decisive factor in small house selling. They have long been associated with costly residence construction, and are instantly and obviously evidence of fine quality in the small home you build.

And, as in the bathrooms, and the heating systems you install, the known quality of your casement windows are of real sales importance.

Crittall has long been known for its fine custom-built steel and bronze casements. That reputation is linked with the Crittall Standardized Casement, which makes the same fine quality and workmanship available for houses of moderate cost.

And in each window that leaves our shop, fastened unobtrusively in the channel section is our name plate shown below. It is the guarantee to your prospect that the window quality in your houses is identical with that in the most exclusive and costly homes in America. They are priced to suit your most modest job.

CRITTALL
Standardized
Casements

Our catalog, showing how easily these windows may be installed, screened and draped will gladly be sent on request.



It is our guarantee of satisfaction

CRITTALL CASEMENT WINDOW COMPANY, *Manufacturers*
10957 Hearn Avenue, Detroit, Michigan

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Decorate with Artistic Lighting Equipment

COME TO CLEVELAND!

National Exhibition of Lighting Equipment

Joint Conventions of National Association of Lighting Equipment Dealers and Artistic Lighting Equipment Association will be held at the

Hollenden Hotel, January 31 to February 5, inclusive

HERE, all that is best and modern in lighting equipment will be displayed under one roof. This is the *only* exhibition of its kind—nothing of greater *educational* or *business building value* to the lighting equipment industry or to the user has ever before been attempted.

All builders, who would know of better artistic lighting equipment of quality, should attend this exhibition. Here, also, you will gain a more thorough understanding of what can be accomplished through co-operative effort in increasing lighting equipment sales and installations.

Come to Cleveland—your attendance at this exhibition will result in *knowledge that can be turned to profit.*

Certain days this exhibition will be open to the public, also, and these *buyers* are certainly interested in what you can provide them in better and more artistic decorative lighting equipment, properly designed to harmonize with their surroundings.

Again, *come to Cleveland!* The most modern equipment for the home, factory or public building will be displayed here.

Complete Details—Reduced R. R. rates will apply. Those desiring information as to space for exhibits may secure all details by writing or wiring Artistic Lighting Equipment Association, 424 Guarantee Title Bldg., Cleveland, Ohio.

On Display

- *Ceiling and wall fixtures
- Table and floor lamps
- Lamp shades and illuminating glassware
- Industrial and commercial units
- Lighting equipment — parts and supplies of all kinds
- Metal furniture, etc.



A NATIONAL ORGANIZATION

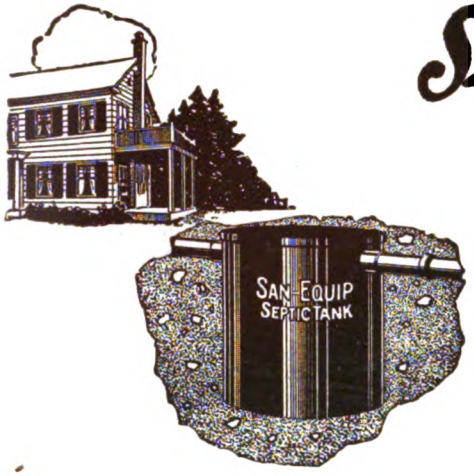
Watch for this emblem when buying lighting equipment. It is a guarantee of honest merchandise at a fair price.

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Why YOU Builders

should always specify the standard

San-Equip SEPTIC TANKS



Following are interesting paragraphs from a letter by a noted director of rural sanitation. (Name upon request.) He is without bias or prejudice in any way and he has had intimate experience for years with several thousand septic tanks.

An Interesting Slant

"The use of septic tanks must be considered from two main standpoints: 1. Installation. 2. Service after installation.

"Improper installation is the greatest single source of trouble. Therefore, the most valuable tank is the one that lends itself most readily and naturally to proper installation. In this item, the metal tank is in a class by itself.

"They are easy to install, being light in weight; one man can handle and install them; because of this easy installation, they are cheaper.

"In practice, we get better installations from them than from other types. The reasons for this are largely conjectural, perhaps, but the fact remains nevertheless.

"You will note that our experience from the 'Installation' viewpoint is entirely in favor of the metal tank.

"Under the heading 'Service' I cannot tell you very much for the reason that practically none of our properly installed tanks has ever given any trouble. Inasmuch as our metal tanks are practically all properly installed, we have never had any trouble with them that I recall now. Most of our trouble comes from what might be called 'bootleg' tanks, generally made by unlicensed plumbers, concrete workers, or 'jacks-of-all-trades.' These tanks are generally of the home-made variety."

As a builder your judgment and reputation is at stake with every new home you build.

This is true whether you build under contract or build homes and sell them.

When you build in the suburbs beyond the sewer line you face a most vital condition—that of sewage disposal. Here your moral responsibility begins. It's unusually heavy because here the health of the occupants becomes an issue.

The obligation of protecting home and family against the danger of typhoid and other infectious diseases makes a safe and modern system of sewage disposal of the greatest importance.

In fact, the most important of all the home equipment is buried in the ground—the septic tank. If it's a concrete or tile (in which you wouldn't store even gasoline) and is cracked by frost, there are no indications of danger until it is necessary to call a physician.

Builders everywhere are recommending and using the San-Equip heavy gauge copperoid iron tanks.

First, because of superior reliability and a desire to give honest, efficient service to their customers.

Secondly, because of the convenience of having the complete plumbing job handled together in one contract, saving time on supervision and getting the detail off their hands.

The distributors are leading plumbing supply dealers everywhere.

San-Equip is known to be a reliable, advertised, standard septic tank. It will help you sell your homes.

You should know septic tanks.

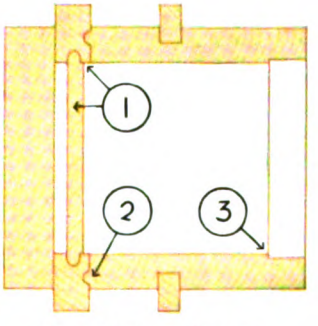
Write today for free Sales Helps and other literature.

CHEMICAL TOILET CORP. 910 Free St., Syracuse, N.Y.

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Andersen Mullions Reduce Air Leakage



New Mullion Features

1. Grooves in blind stops receive the new filler piece forming a continuous blind stop. (patent pending)
2. Jambs are now tongued into blind stops.
3. Rabbets to receive inside ground casing.

All builders know how the old style mullion permitted air leakage. There was nothing to prevent it.

Three new features of the Andersen mullion reduce air infiltration to a minimum. A filler piece forming a continuous mullion blind stop is now furnished. Between it and the casing is a dead air space, or insulation may be inserted.

Most lumber dealers handle Andersens. Write for the new catalog.

Andersen Lumber Company
Bayport, Minnesota

Andersen
FRAMES

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It will be on the job when he's an old man. We know of windows in which Samson Spot Sash Cord was installed more than 30 years ago — and still going strong.

It will last as long as the window

Samson Spot Sash Cord is proof that it pays to use good materials.

Double-hung windows are made to be used—and this usefulness for years to come depends mainly upon the sash cord. Samson Spot Sash Cord *wears* better.

It does not stretch. You install it but once. No "taking up" is ever needed, for the weights will not touch bottom when properly installed. This can mean a big saving for you.

SAMSON SPOT SASH CORD



Trade Mark Reg. U. S. Pat. Off.

is *not* loaded. It contains no adulterating materials. It is firmly and evenly braided of cotton yarn, spun in our own mills. It is permanently trade marked for you by our colored spots (in any color), which indicate but one quality, the best we can make after more than 40 years in the business.

Samson Spot Sash Cord is *guaranteed* to be carefully inspected and free from any imperfection of braid or finish.

Sizes for every purpose. Write for our Specification Manual, which gives our recommendations for pulleys and weights desirable for each size of Samson Spot Sash Cord.

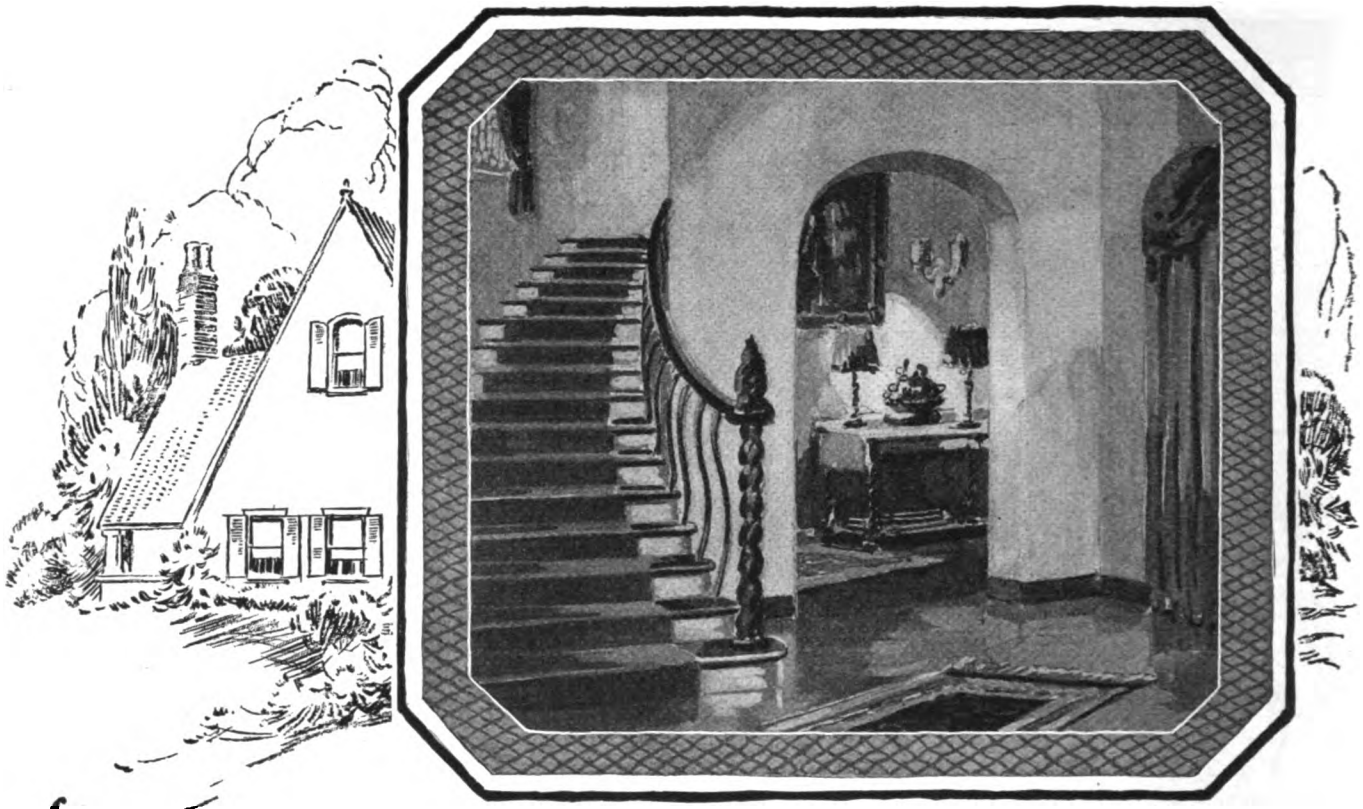
Made by

SAMSON CORDAGE WORKS

88 BROAD STREET BOSTON, MASS.

TRADE MARK

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Shaped in Steel walls are assured lifetime beauty

With expanded metal lath, made from Sheet Steel, plaster walls are built steel strong — lifetime beauty is assured.

Plaster properly applied on metal lath will endure. The ugliness of cracked and broken plaster will not mar the wall. Lath marks, too, are prevented.

This lifetime endurance makes it practical to build both color and texture into the plaster itself. The method is economical. It saves the usual decoration expense. And the first cost is the last cost—there is no expense for repairs and redecoration.

Steel lath gives added safety from fire, too. Plaster on metal lath is rated one hour protection by the Underwriters' Laboratories as against four minutes for combustible construction.

Providing better plaster walls is just one of the many services of Sheet Steel. Steel roofs give protection from fire, weather and, properly grounded, from lightning. They can be had in Spanish tile, French tile and other effects to conform with the finest architecture.

Porcelain enameled tile provides an easily cleaned wall surface of unusual permanence for bathrooms, kitchens and pantries. By use of steel-formed framing, steel trim, steel doors, and steel window frames and sash, all combustible material can be eliminated from construction.

An interesting booklet, "The Service of Sheet Steel to the Public," gives many suggestions for the use of Sheet Steel in heating systems, home construction, garages, ceilings, cornices, and many other building purposes.

For a copy, address SHEET STEEL TRADE EXTENSION COMMITTEE, OLIVER BUILDING, PITTSBURGH, PENN.

This trade-mark stenciled on galvanized Sheet Steel is definite insurance to the buyer that every sheet so branded is of prime quality—full weight for the gauge stamped on the sheet — never less than 28 gauge—and that the galvanizing is of the full weight and quality established by the SHEET STEEL TRADE EXTENSION COMMITTEE *specification.*

MASTER TEC BRAND

SHEET STEEL

***for* Strength Safety Beauty *and* Economy**

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When Professional Men *—All Agree*

When architects see no restrictions laid upon their originality and art, when contractors find no difficulty in installation work, when building managers foresee easy leases, when underwriters estimate a surer return—

When professional men all agree, as they do, about Murphy In-a-Dor Beds, there must be exceptional features—both mechanical and economic—about the product.

Murphy In-a-Dor Beds—even the largest of the four standard bed sizes—swing through a standard three foot door and thus do not affect the appearance of the room. With variety of designs they harmonize, too, with the furnishings.

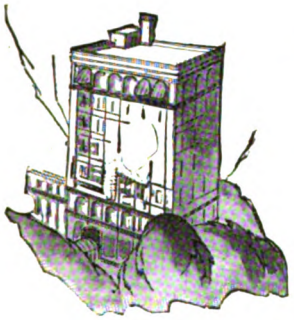
Independent of the door, the Murphy In-a-Dor Bed is easily installed and needs no adjustments later.

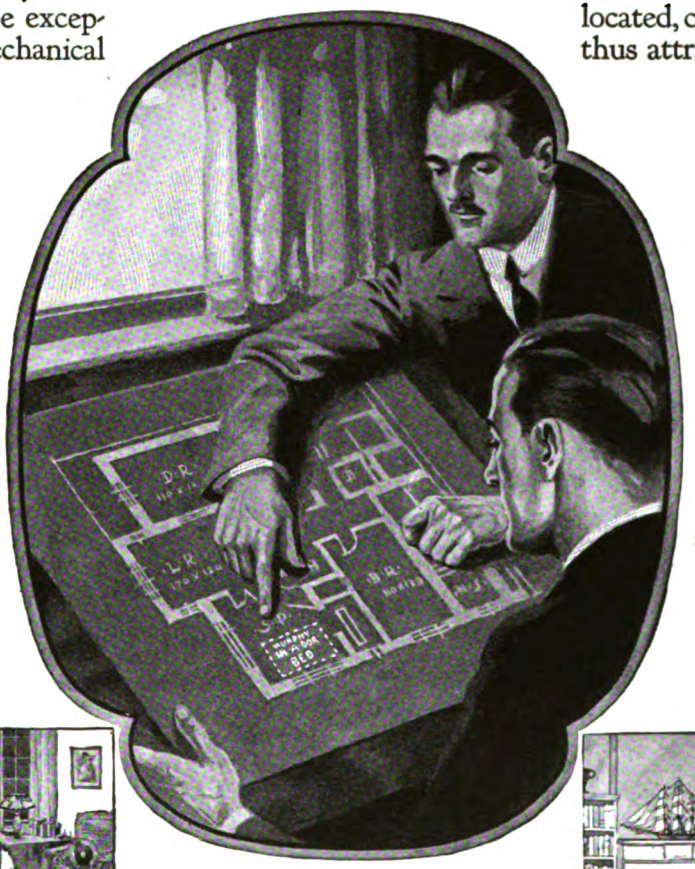
Tenants like Murphy In-a-Dor Beds because they are so easily handled, mean more closet space and give spaciousness to a floor area that would otherwise be cut up into small rooms.

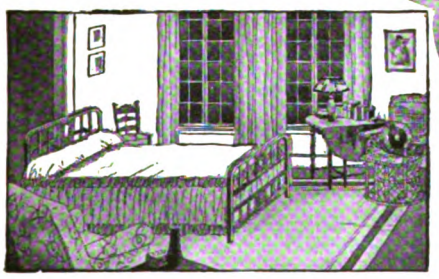
Murphy In-a-Dor Beds make possible the building of apartments and homes on conveniently located, close-in, high priced land, thus attracting a substantial tenantry and assuring a ready sale.

Learn more about In-a-Dor Beds

There is only one In-a-Dor Bed—the Murphy. Learn all about it and about the Murphy Co-operative Service. See why the professional men all agree on this building requisite. Write, please, to our office nearest you.









In modest home as well as in palatial apartment the Murphy In-a-Dor Bed creates higher standards of living at lower cost

The Murphy In-a-Dor Bed

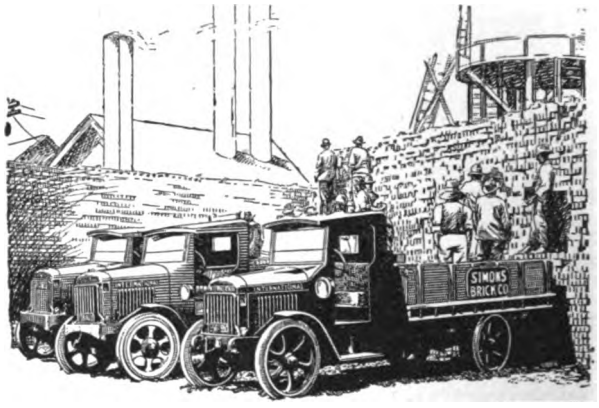
MURPHY DOOR BED COMPANY

New York City	19 W. 44th St.	Detroit, Mich.	7th Floor, Kresge Bldg.
Chicago, Ill.	22 W. Monroe St.	Birmingham, Ala.	513 N. 21st St.
Atlanta, Ga.	33 Luckie St.	Cleveland, O.	1140-42 Hanna Bldg.
Seattle, Wash.	Terminal Sales Bldg.	Kansas City, Mo.	1114 Grand Ave.
San Francisco, Calif.	Crocker Bldg.	Dallas, Tex.	1919 Pacific Ave.
Los Angeles, Calif.	1807 S. Main St.	El Paso, Tex.	Neff-Stiles Bldg.
Denver, Colo.	1534 Blake St.	Houston, Tex.	2301 Main, St.
St. Petersburg, Fla.	225 Second Ave. S.	New Orleans, La.	319 Dryades St.
Miami, Fla.	234 Columbia Bldg.	Ottawa, Canada	205 O'Connor St.
Tampa, Fla.	220 Warner Bldg.	Montreal	698 St. Catherine St., West
St. Louis, Mo.	315 N. 10th St.		

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Both are in Los Angeles—it happens that each has 26





Mayhugh owns
26 International Trucks
—and standardizes on them!

"I FIND that International Trucks earn me a greater profit than any other make I ever owned," says Claude Mayhugh of the Mayhugh Trucking Company. "Having used a great many different trucks, there was no question in my mind as to the make of trucks that I should buy for the West Pico Boulevard job, but I was undecided as to the size best suited for fast batch hauling. Speed turned the trick; I make mighty good time with my 2-ton Internationals.

"In heavy excavation hauling, such as I encountered on the Saw Pit Dam project near Monrovia, I use the larger Internationals most successfully."

Mayhugh has standardized on Internationals because their ability to do all work at comparatively small cost enables them to earn real dividends.

The experience of this local firm, identified with some of the biggest construction projects on the Coast, is typical of the experience of other International owners in all lines of business. Let us point out to you some of the reasons why International Trucks will solve your hauling problems.

"26 International Trucks are always on the job for us"
says Simons Brick Co.

THIS big firm, known as the world's largest manufacturer of common brick, is standardizing on International Trucks. In their own words, the principal reason is "the excellent service these trucks have always given us." At this time Simons are using 26 Internationals (a number with 6-wheel equipment) at their Los Angeles, Pasadena, Simons, Montebello, Santa Monica, and El Centro factories. Internationals already haul more than two-thirds of the total output, and to such good advantage that Simons say, "We are gradually replacing our other trucks with Internationals."

They have this to say about the service for which International Trucks everywhere are famous: "We also like the attention you give your trucks after they are in use. The courtesy extended by the members of your organization is very much appreciated."

The successful record of Internationals in everyday hauling of heavy, gritty brick is a real reference. The kind of International construction and service that has made this record possible will help you to solve your transportation problems.

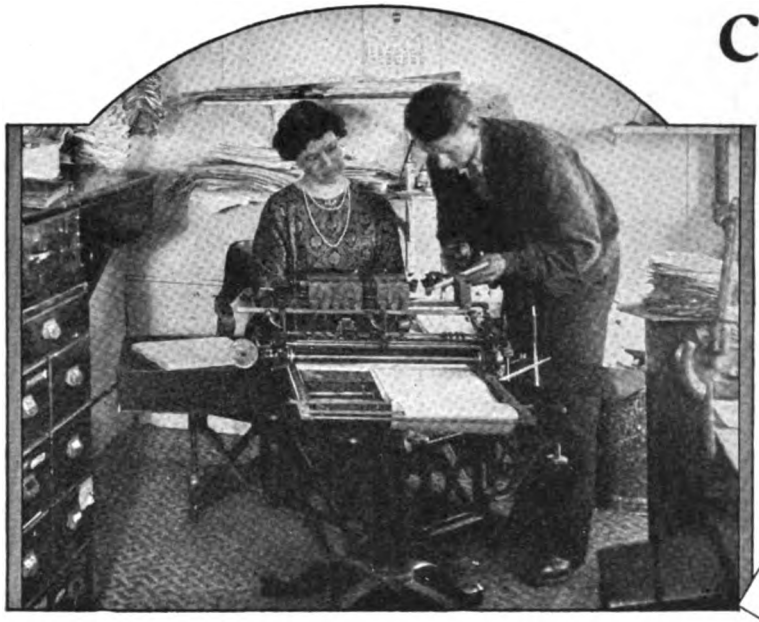
The International line includes Speed Trucks, Heavy-Duty Trucks, and Motor Coaches. Also, the McCormick-Deering Industrial Tractor. Served by 121 branches in the United States, world's largest Company-owned truck service organization.

INTERNATIONAL HARVESTER COMPANY
of America [Incorporated]
606 So. Michigan Ave. Chicago, Ill.

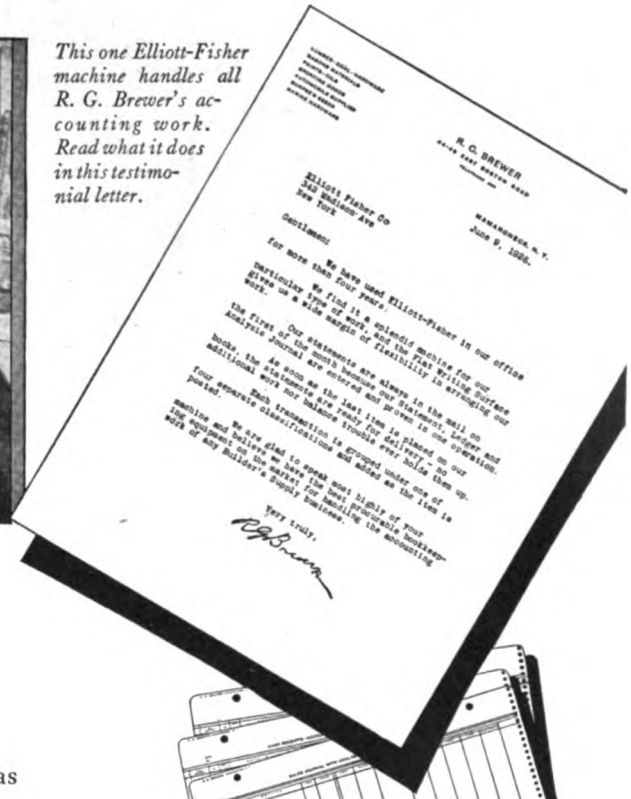
INTERNATIONAL HARVESTER COMPANY TRUCKS

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No other accounting machine.. can *match it!*



This one Elliott-Fisher machine handles all R. G. Brewer's accounting work. Read what it does in this testimonial letter.



Elliott-Fisher handles the accounting work for Builder's Supply Houses without delay or trouble

says R. G. Brewer

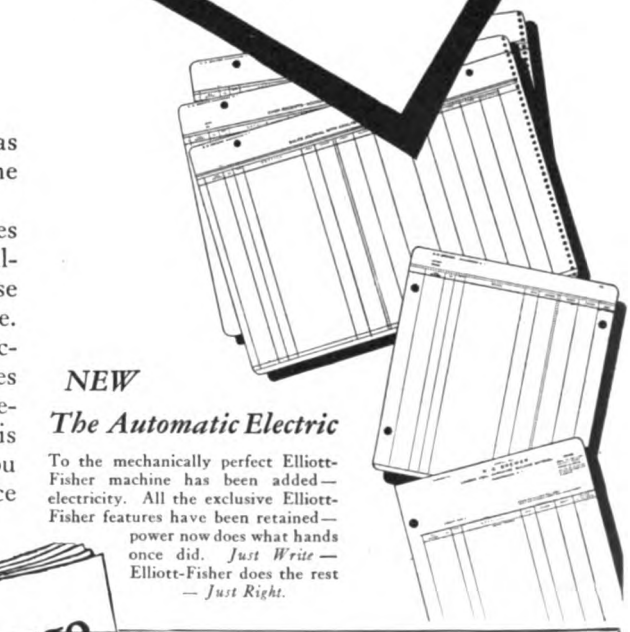
MORE than four years' experience with Elliott-Fisher has proved to R. G. Brewer that Elliott-Fisher removes the causes of accounting errors.

So quickly and accurately does Elliott-Fisher post entries that there is never a delay at trial balance time. Correct, balanced figures are on the books each day at closing hour, because Elliott-Fisher automatically checks each entry when it is made.

Statement troubles vanish when Elliott-Fisher does the accounting work. Statement, Ledger and Analysis Journal entries are entered and proved in a single operation. Thus your statements are ready to go into the mail as soon as the last entry is made on the 29th. No additional work is required. And you will find that the clearly written, itemized statements reduce complaints and speed returns.

We'd like to tell you the other jobs that Elliott-Fisher can do for your business and how it cuts accounting overhead right to the bone. In an interesting booklet "Why" we have explained Elliott-Fisher in detail. We will gladly send you a copy of this booklet if you will mail the coupon below.

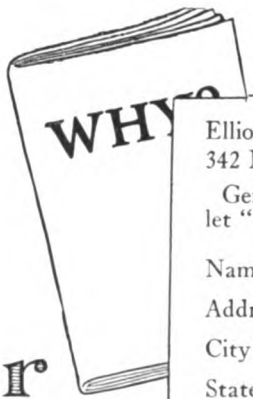
Service and Supplies are second only in importance to machines. You can depend absolutely on E-F Service and EFCO Supplies.



NEW

The Automatic Electric

To the mechanically perfect Elliott-Fisher machine has been added—electricity. All the exclusive Elliott-Fisher features have been retained—power now does what hands once did. *Just Write*—Elliott-Fisher does the rest—*Just Right.*



Elliott-Fisher Company
342 Madison Ave., New York

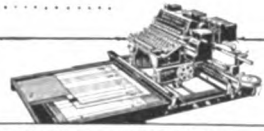
Gentlemen: Please send me a copy of your booklet "Why?"

Name.....

Address.....

City.....

State.....



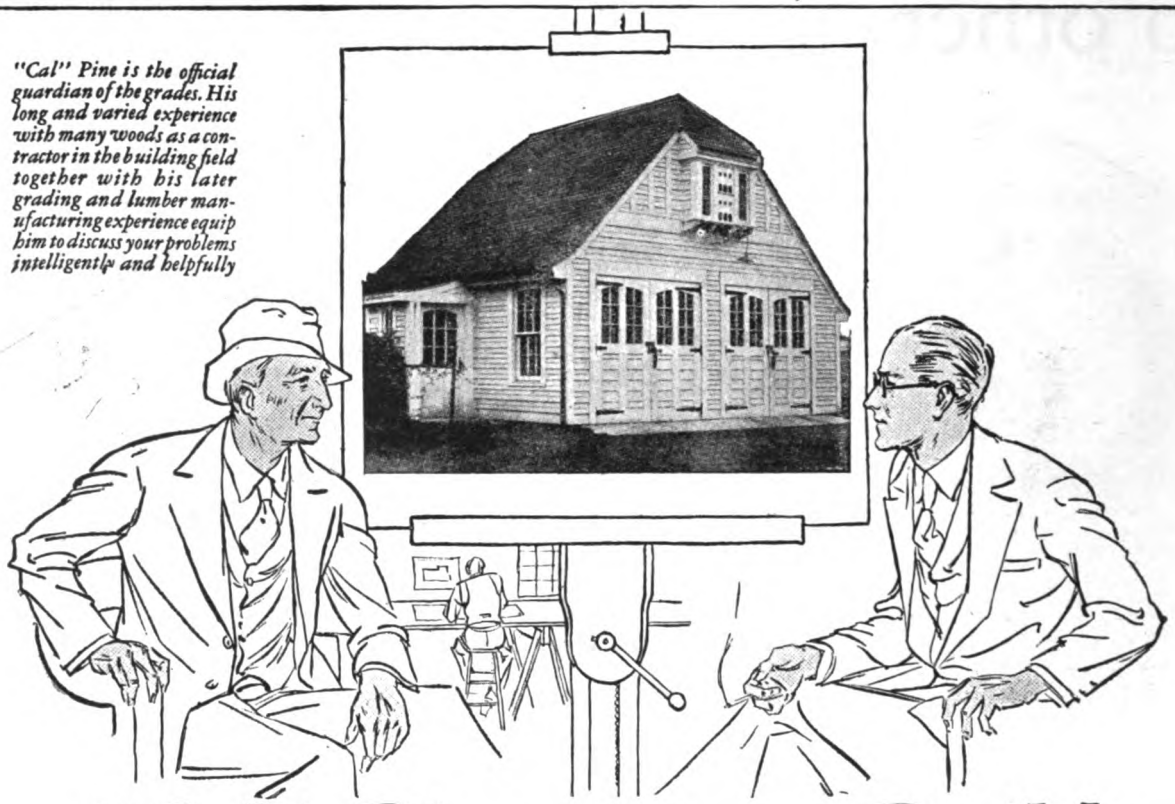
Elliott - Fisher

AUTOMATIC ELECTRIC

ACCOUNTING MACHINES *with the* FLAT WRITING SURFACE

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"Cal" Pine is the official guardian of the grades. His long and varied experience with many woods as a contractor in the building field together with his later grading and lumber manufacturing experience equip him to discuss your problems intelligently and helpfully



"Cal" Pine and the Builder

Discuss Garages and Garage Doors

"WHAT are your reasons, 'Cal' Pine, for recommending California White Pine and Sugar Pine for garages and garage doors?"

"All the reasons for the use of these woods in house construction apply to garage construction. I don't know any other wood that has so many service qualities for the purpose. For framing, these pines have sufficient strength and are free from twisting. Freedom from warping and end shrinking keeps joints tight—this is an important quality, both in garages and garage doors. The uniform soft texture and close, even grain of California Pine make cutting and sawing easy without splintering, hence less waste of material. It takes and holds nails tightly, right up to edges and ends without splitting, it permits accurate, permanent joinery and faithful rendering of the sharp lines and contours of architectural designs. Garage doors made of California Pine have the strength to stand hard knocks but they are light enough in weight to hang true on hinges without strain. They are not subject to twisting, swelling or contracting —they open and shut without sticking."

"How about painting qualities of California Pine?"

"There too, you have many advantages in specifying this wood. It is most economical to paint. Its smooth, satiny surface requires less time for painting and because of its own natural light color it requires fewer coats for a fine job Absence of grain-raising tendencies further insure the lasting beauty of the painter's work."

"Does California Pine come in all forms for garage construction?"

"Yes—dimension for framing comes in standard grades and sizes and for siding you can have all sizes of bevel siding, even the extra wide known as Eastern Colonial, while all patterns of drop and rustic sidings are always available, made from either select or common grades, usually from the latter, which are economical in cost, smoothly milled and when painted make a first class job suitable for any garage. My illustrated book of grades, forms and sizes will give you full specification data. A postcard will bring you a copy without cost."



CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION

Also producers of CALIFORNIA WHITE FIR • CALIFORNIA DOUGLAS FIR • CALIFORNIA INCENSE CEDAR

657 CALL BUILDING, SAN FRANCISCO

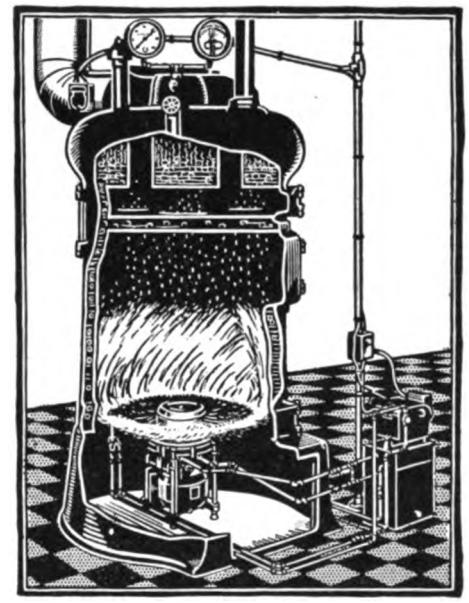
california PINE

California White Pine (trade name) California Sugar Pine

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The Roar has been Conquered by the Radiant Shell of Silent Flame



Silent Automatic exclusive method of Direct Heating is equally efficient in round, sectional or steel boilers.

No roar. No dust. No ashes. No dirt. No soot. No smoke. No disagreeable odors or fumes. Just *clean, silent* and *automatic* heat. In place of a roaring blast projected by a noisy blower, Silent Automatic produces a *radiant shell of silent flame.*

This radiant shell swings around and around the fire box, hugging the heating surfaces—bathing them with lively heat. *No heat is wasted.*

This exclusive method of direct heating gives Silent Automatic a new high efficiency rating, and makes *economy an immediate certainty,* not a remote probability. *Write now for complete details.*

Listed as Standard by the Underwriters' Laboratories

SILENT AUTOMATIC CORPORATION
255 MELDRUM AVENUE - DETROIT, MICHIGAN

$350

Installed with complete automatic safety and operating control equipment heretofore found only on the highest priced machines. Tankage extra.

SILENT AUTOMATIC



THE NOISELESS OIL BURNER

(188)

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Making Known the Facts About Douglas Fir Lumber Products

Correctly Seasoned

The Long-Bell dry kilns at Longview, Washington, are of the latest design, having the largest capacity in the Pacific Northwest, and the kiln drying is *scientifically controlled*, which assures properly seasoned lumber.



Trade-Marked

Long-Bell Douglas Fir lumber and timbers are trade-marked for identification of unusual thoroughness in manufacture—plus more than fifty years' experience as lumbermen.

Heartwood

Heartwood is matured wood, dependable and enduring. A greater percentage of *heartwood* is obtained in Douglas Fir lumber than in any other commercial softwood .... more than 78 per cent of the entire production of Long-Bell trade-marked Douglas Fir lumber is *all heart*.

Edge Grain

Rift sawed or edge grain stock is most serviceable. The amount of edge grain stock produced in Douglas Fir lumber is many times that obtainable in other commercial softwoods.

Straight Lumber

Long-Bell trade-marked Douglas Fir lumber is stacked flat, seasoned flat and stays flat.

THE LONG-BELL LUMBER COMPANY

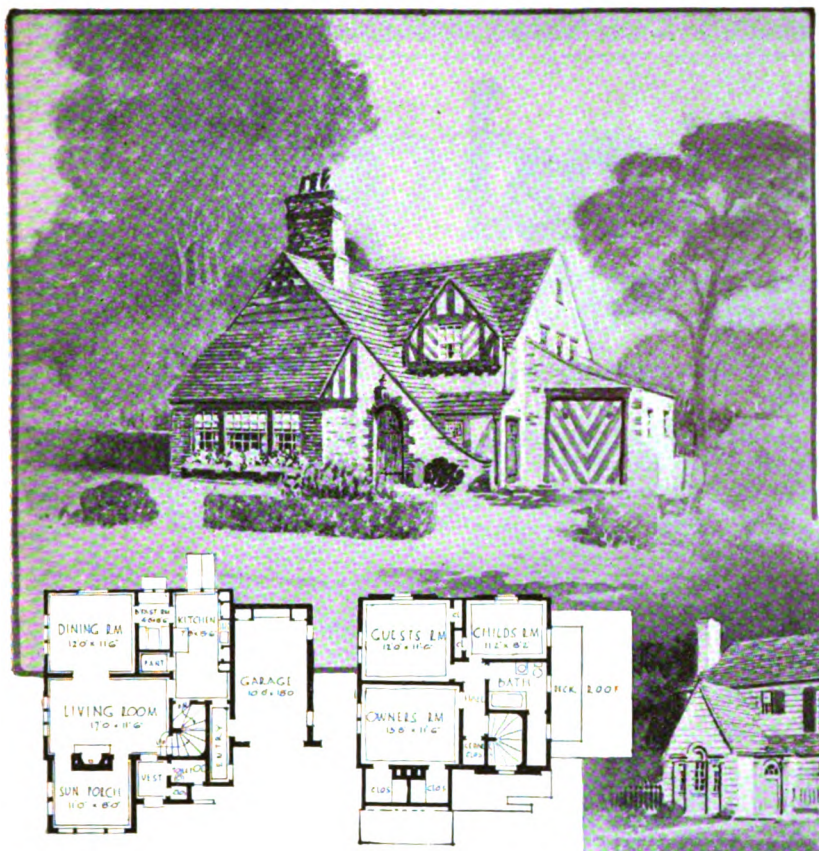
R. A. LONG BLDG. *Lumbermen since 1875* KANSAS CITY, MO.

LONG-BELL
Trade-Marked LUMBER

Douglas Fir Lumber and Timbers; Western Hemlock Lumber; Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties, Guard-Rail Posts, Piling; Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors; Box Shooks.

KNOW THE LUMBER YOU BUY

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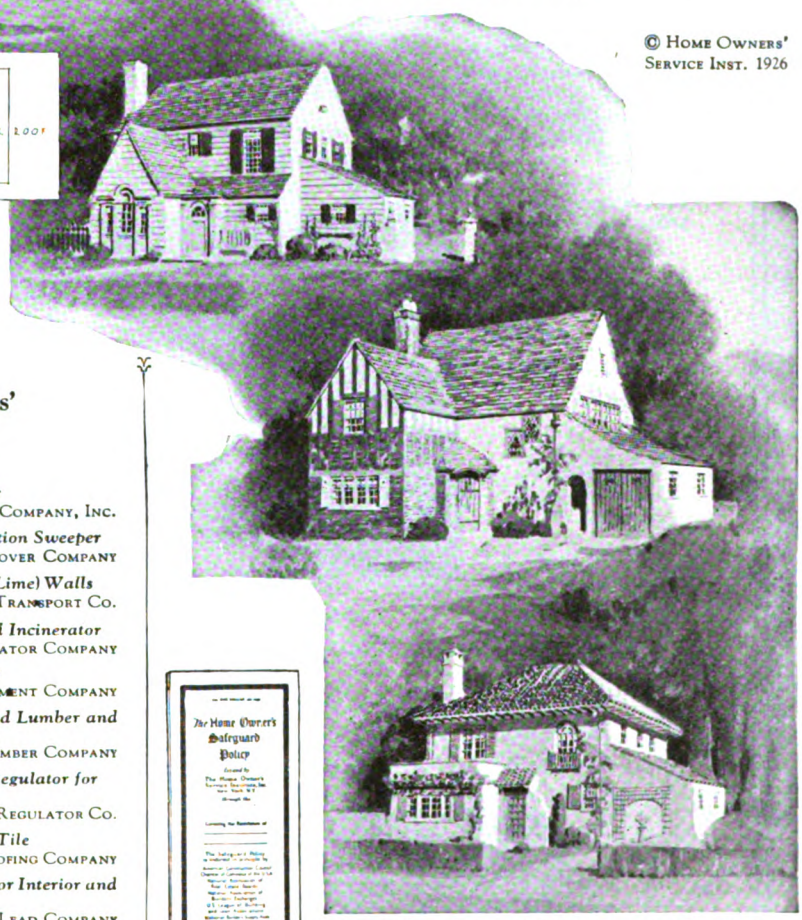
Fighting YOUR battle!

ONE of the greatest selling helps to a realtor builder is an appreciation by the home buyer of the investment value of the *best* in workmanship, building materials and equipment.

A nation-wide model homes campaign in 28 cities, with the cooperation of 36 outstanding realtor builders is accomplishing this. Advertising of manufacturers and associations tying in, and the feature home building department pages published weekly by a cooperating newspaper in each city, are telling the story of better homes—fighting your battles.

Thousands are visiting these model homes, built of the quality materials and equipment listed below, and protected by the new Home Owners' Safeguard Policy.

© HOME OWNERS' SERVICE INST. 1926



Standard specification, protected by our new Home Owners' SAFEGUARD POLICY—

Anaconda Brass Pipe, Copper Gutters, Leaders, Flashings and Bronze Wire for Screens
THE AMERICAN BRASS COMPANY

Blue Star Installation Domestic Gas Appliances
AMERICAN GAS ASSOCIATION

Corto Radiators — Ideal Arco Boiler — Arco Hot Water Tank
AMERICAN RADIATOR COMPANY

Muralia Wall Papers
BAECK WALL PAPER COMPANY

True-Tye Bridging and Steel Forms for Concrete Construction
BLAW-KNOX COMPANY

Celotex Insulating Lumber
THE CELOTEX COMPANY

Brick COMMON BRICK MANUFACTURERS ASSOCIATION OF AMERICA

Nairn Gold Seal Inlaid Linoleum
CONGOLEUM-NAIRN, INC.

Corbin Locks and Builders' Hardware
P. & F. CORBIN

Plumbing Materials CRANE CO.

Radio Receiving Sets and Equipment
THE CROSLEY RADIO CORPORATION

Fenestra Casement and Basement Steel Windows DETROIT STEEL PRODUCTS CO.

Tontine Window Shades, Rug Anchor, Duco Finished Furniture
E. I. DUPONT DE NEMOURS & CO., INC.

Fairfacts China Bathroom Accessories
THE FAIRFACTS COMPANY, INC.

G-E Wiring System
GENERAL ELECTRIC COMPANY

Graybar Clothes Washer
GRAYBAR ELECTRIC COMPANY, INC.

The Greater Hoover Suction Sweeper
THE HOOVER COMPANY

Tiger Finish (Hydrated Lime) Walls
KELLEY ISLAND LIME & TRANSPORT CO.

Kernerator Chimney-Fed Incinerator
KERNER INCINERATOR COMPANY

Lehigh Portland Cement
LEHIGH PORTLAND CEMENT COMPANY

Long-Bell Trade-Marked Lumber and Oak Flooring
THE LONG-BELL LUMBER COMPANY

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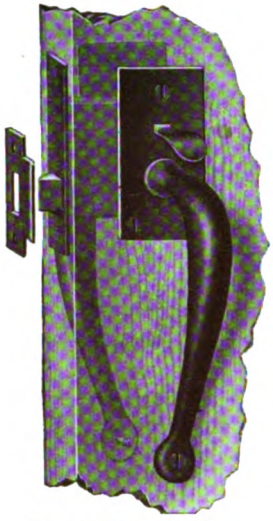
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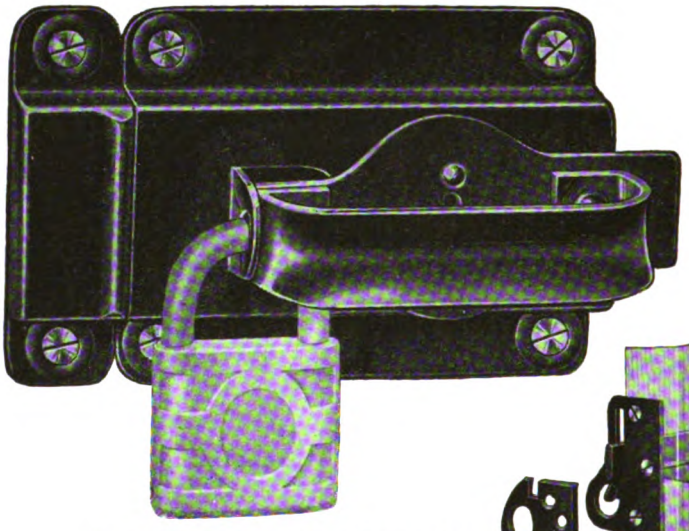
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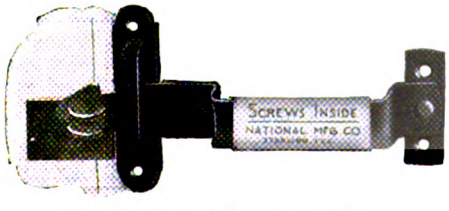
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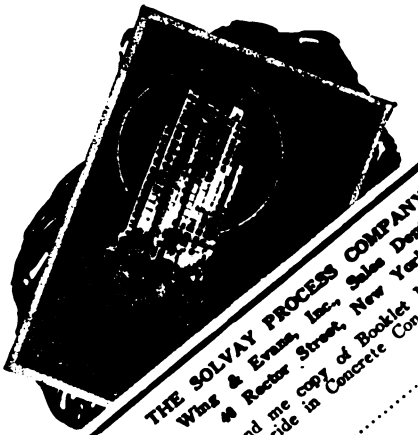
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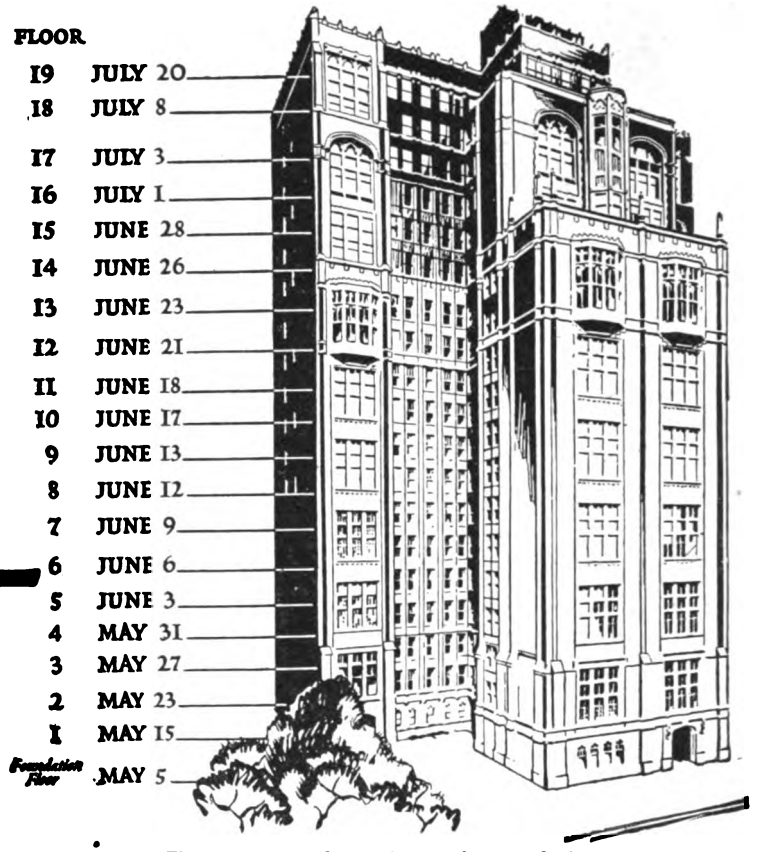
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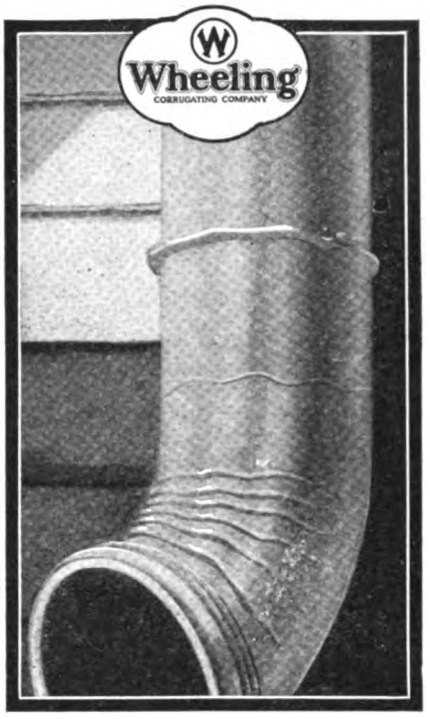
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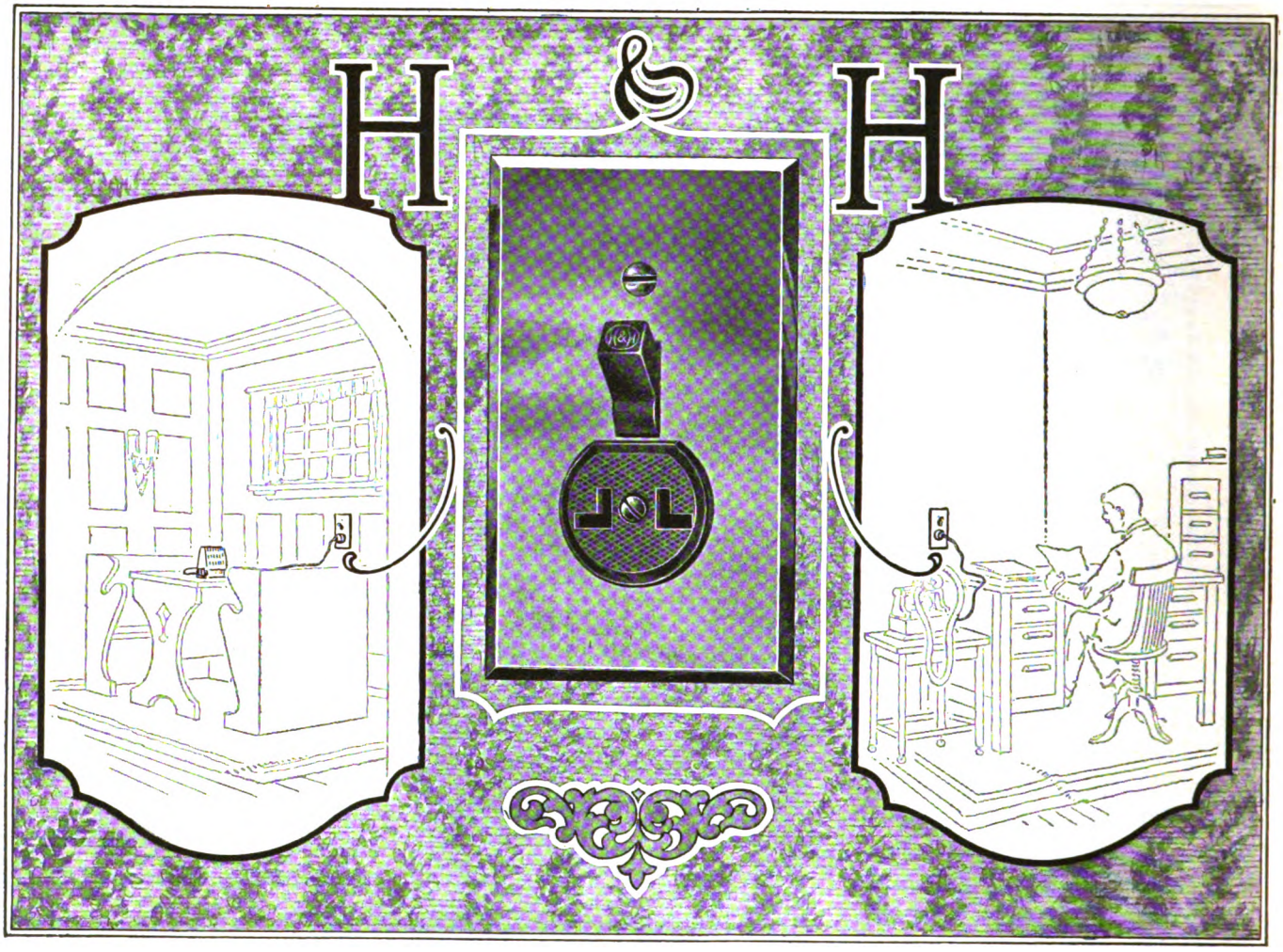
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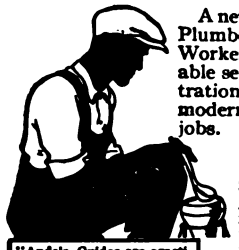
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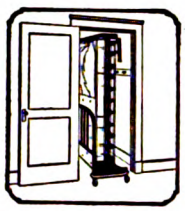
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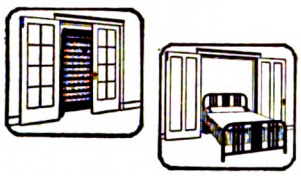
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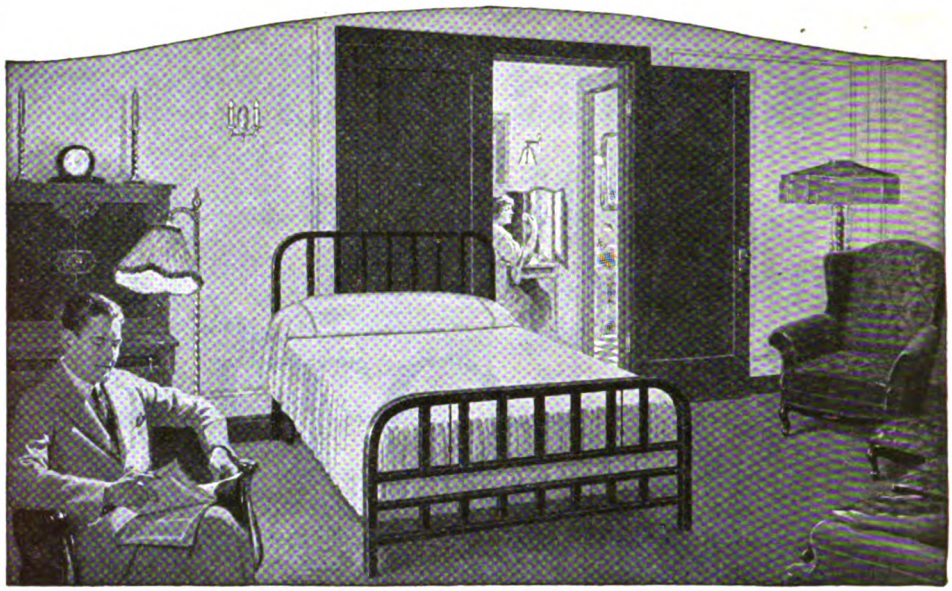
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Ruberoid Massive Hex-strip Shingles

Welcomed By Building Industry

This actual photograph tells the story of the Ruberoid Massive Hex-strip Shingles.

Here is massiveness combined with Ruberoid quality and Ruberoid richness.

Ruberoid Massive Hex-strips are forty per cent. thicker than the average high quality shingle. Note the deep, pronounced shadow lines cast by their clean-cut edges.

Massive Hex-strips have the heaviest felt base possible to use. Such shingles will stay where they are put.

They are offered in six rich permanent colors that satisfy the most discriminating customer—natural slates harmoniously blended.

No matter what roof covering is your favorite, get the particulars on this better, thicker and more beautiful Massive Hex-strip. It is many a day since the building industry has had an opportunity to welcome a seller like this. Be sure to see it.

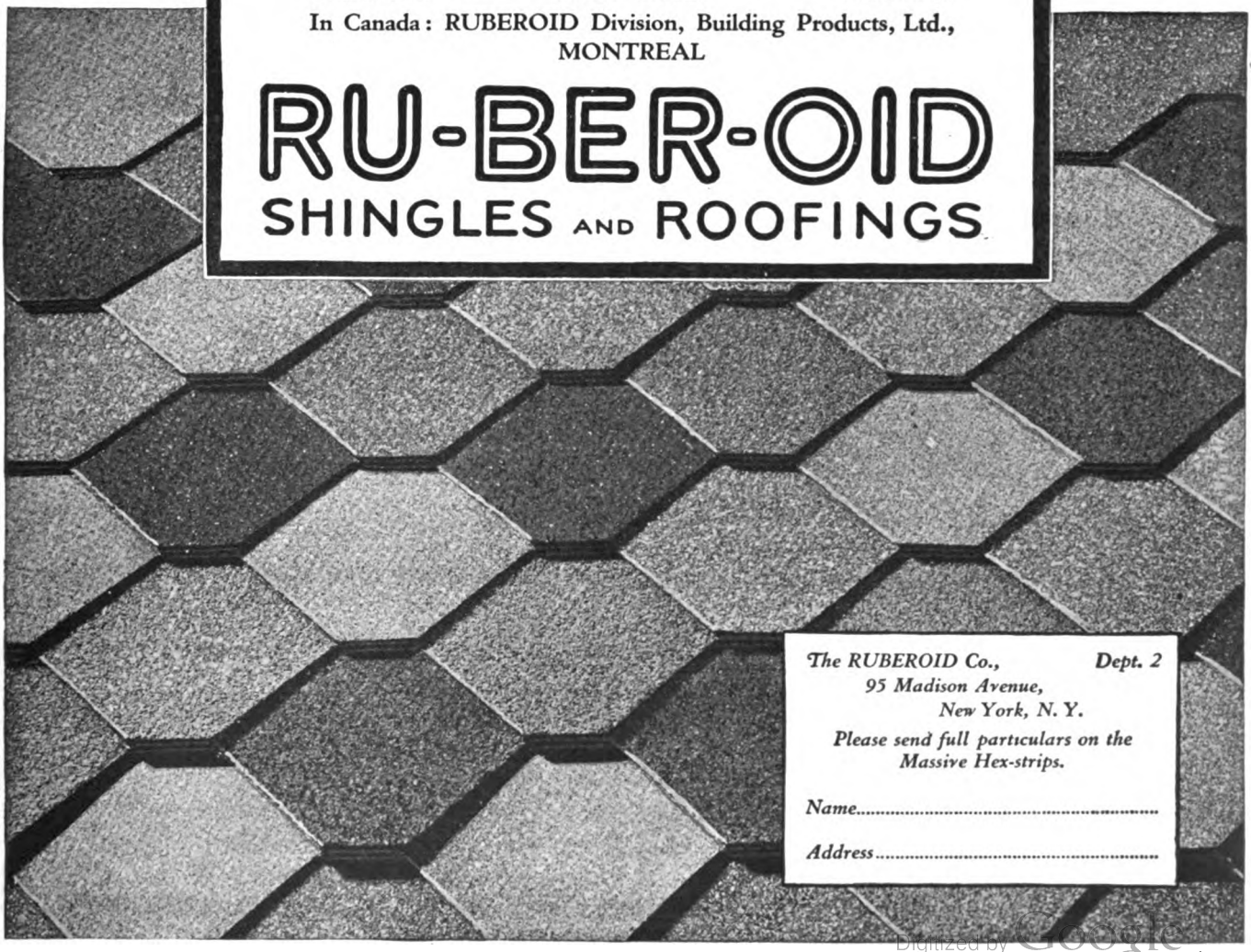
The RUBEROID Co.

CHICAGO NEW YORK BOSTON

In Canada: RUBEROID Division, Building Products, Ltd., MONTREAL

RU-BER-OID

SHINGLES AND ROOFINGS



The RUBEROID Co., *Dept. 2*
95 Madison Avenue,
New York, N. Y.

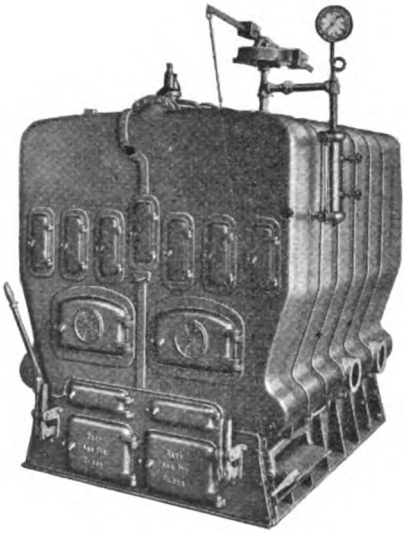
Please send full particulars on the Massive Hex-strips.

Name.....

Address.....

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Burnham Boilers



A Big Builder Finds Out How To Overcome The Short Life In Heavy Duty Boilers

THIS builder operates in a near-by part of the State, where it has been discovered that the water contains certain elements that cause steel boilers to deteriorate quickly.

Two big apartment houses that he built were equipped with steel boilers which, although they were one of the best makes, proved to be short lived.

Now he proposes using Burnham Cast Irons because they are known to withstand destructive water conditions.

He is going to use the Big Burnham Twin Sectional, either singly or in batteries.

The fact that we make both steel and cast iron boilers, places us in an unbiased position admitting of this frankness.

Get the facts on this Burnham Twin Sectional.

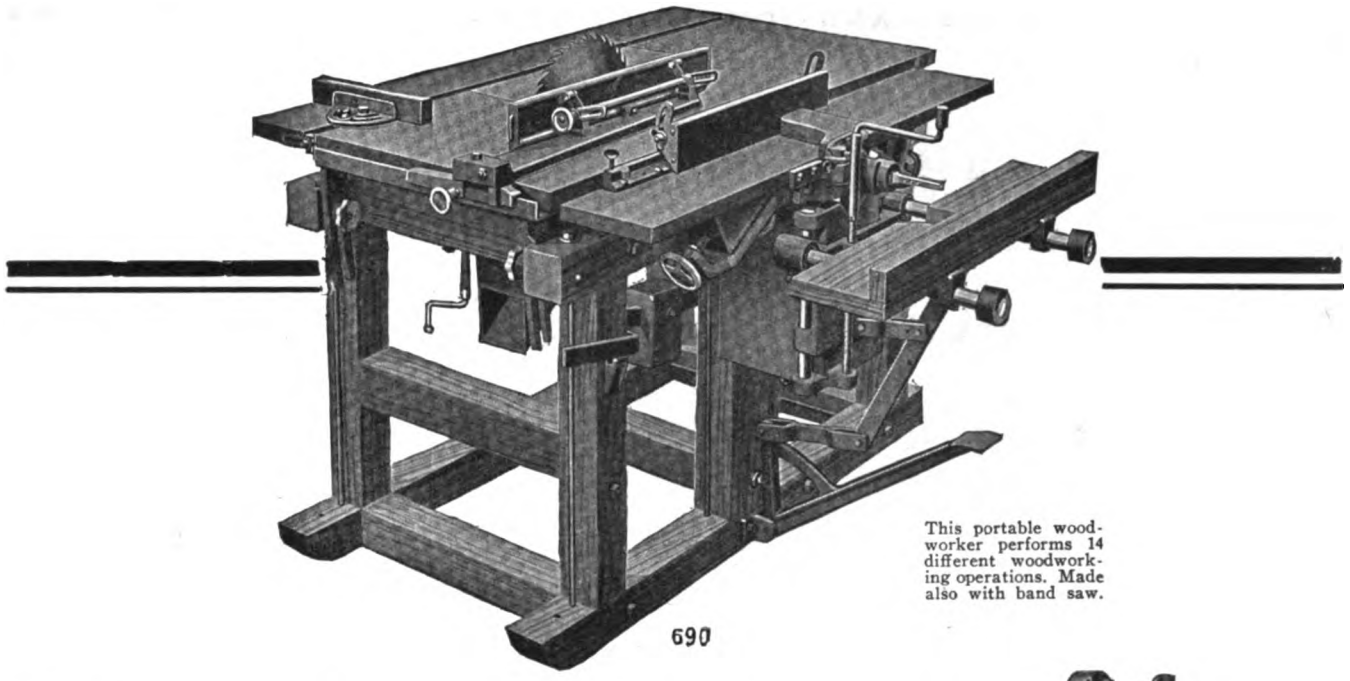
Burnham Boiler Corporation

IRVINGTON, N. Y.

New York Office: 30 East 42nd Street

Representatives and Branch Offices in Principal Cities of U. S. and Canada

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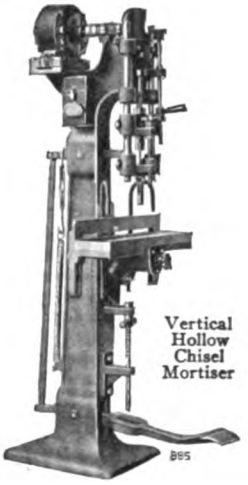
This portable woodworker performs 14 different woodworking operations. Made also with band saw.

WIN more bids by cutting your costs —and increasing your PROFITS

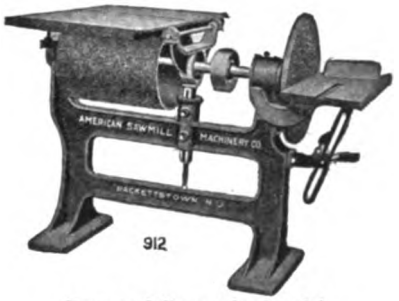
Hundreds of contractors are making this Portable Variety Woodworker help them win extra jobs. It enables them to bid low, yet make a fine margin of profit. No more slow, costly hand-sawing. No waiting on the nearest shop for special jobs. Instead, they have a complete woodworking shop at hand—right on the job. Four men can work it at once.

This one machine may be used as a rip, cut-off, or 20-inch scroll saw; as a dado, gaining, grooving, rabbeting, tenoning or boring machine; as a jointer or planer, a matcher, molder or sander and as a hollow chisel motiser.

Send the coupon below for a copy of Bulletin No. 82, which describes the machines illustrated on this page as well as many other cost-cutting woodworking machines.



With tilting table and traveling bed



Drum and disc sander for plain, curves and angle sanding.

AMERICAN
SAW MILL MACHINERY CO.

MAKERS OF WOODWORKING AND SAW MILL MACHINERY

61 MAIN STREET, HACKETTSTOWN, N. J.

Clip and mail today

The American Saw Mill Machinery Co.
61 Main Street, Hackettstown, N. J.

Gentlemen:
I am interested in the machinery described in your Bulletin No. 82. Please mail me a copy at once.

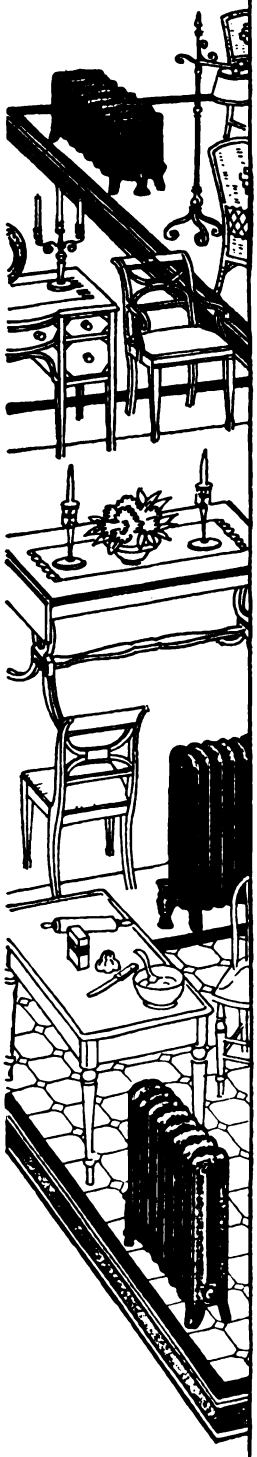
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City..... **State**.....

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DEPENDABLE HEAT ALL OVER THE HOUSE WITH ECONOMY



Not only the boiler but also heating-comfort —GUARANTEED

Most guarantees are only promises to replace defective parts. Good, as far as they go.

But Capitol *guaranteed heating* is a remarkable, new-type guarantee; a definite, non-quibbling guarantee of results. It guarantees not only parts, but performance. It is a complete and broad warrant of heating satisfaction and comfort—in writing. For if any Capitol boiler under stated conditions fails to heat satisfactorily its full published amount of cast iron radiation, the necessary additional capacity is supplied without charge.

Prospective buyers and renters know these facts. They have been strikingly told in a consistent campaign of national advertising in big, full-color pages. Specifying Capitol *guaranteed heating* does more than banish uncertainties about boiler sizes. It definitely helps to prejudice prospects in favor of your constructions. Detailed information gladly sent on request.

UNITED STATES RADIATOR CORPORATION

DETROIT, MICHIGAN

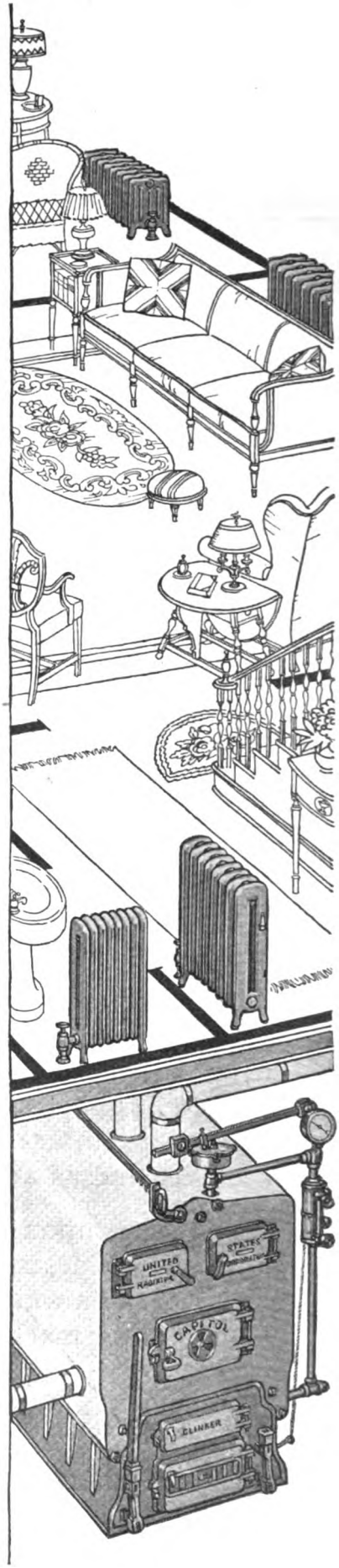
6 FACTORIES AND 28 ASSEMBLING PLANTS SERVE THE COUNTRY

For 36 years, builders of dependable heating equipment

Capitol Boilers

and

UNITED STATES RADIATORS



SUPPLIED AND INSTALLED NATIONALLY BY ESTABLISHED HEATING CONTRACTORS

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keep heat where it belongs

INDOORS
in cold weather

OUTDOORS
in hot weather

HEAT-LOSS in winter is one thing—heat-invasion in summer is quite another. Modern INSULATION *must keep heat where it belongs*—outdoors in hot weather and indoors in cold weather. MASONITE does both. It is all-wood and therefore superior to substitutes in all essentials.

The Superiority of Manufactured All-Wood Lumber

Architects appreciate the many advantages of all-wood Structural Insulation and unhesitatingly recommend MASONITE. They have seen reports of unbiased official tests which prove that all-wood insulation possesses greater heat-resistance than substitutes.

Contractors understand the permanence of wood as a building material and recommend MASONITE to all who build for Permanent Comfort and Value. They find it profitable to work with a material that handles as easily and with as little waste as this remarkable new product.

Structural Insulation with Many Uses

MASONITE replaces other building materials, effects building economies, adds to the strength and permanence of new and old dwellings, stores, offices, churches, theatres, factories and schools. Hence *"Structural Insulation,"* which completely describes the product and its uses.

MASONITE is recommended for sheathing, plaster base, interior finish, and under roofing—as insulation wherever used—and as sound-deadener in floors and ceilings.

Send for Sample and Literature

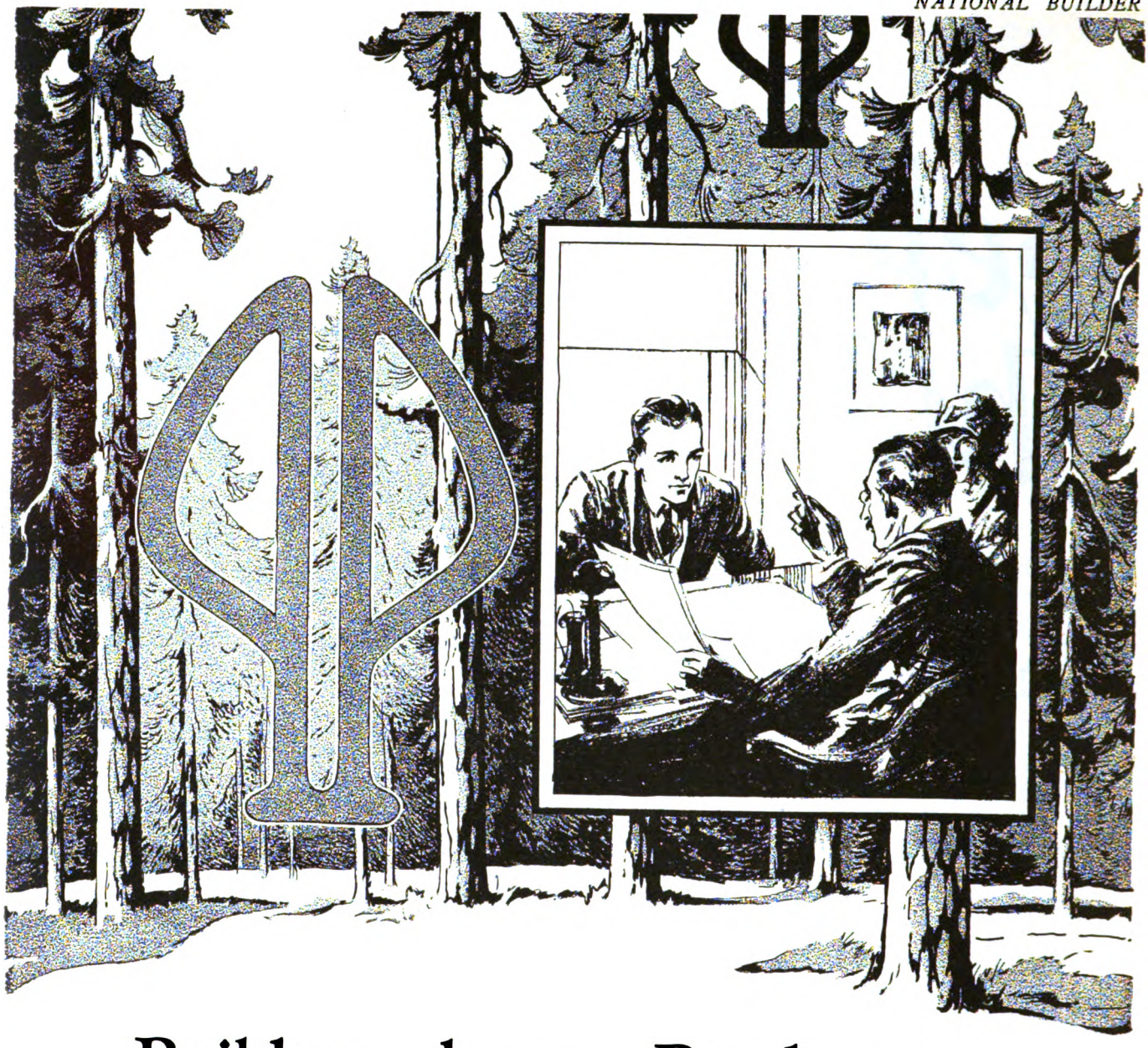
You can obtain MASONITE through leading lumber dealers everywhere. Send for a sample and make your own comparisons. Read the MASONITE literature which tells the whole story—how the new product is made, how used in modern building operations. Write today for the sample and the story.

MASON FIBRE COMPANY
Dept. 212, 111 W. Washington St.
CHICAGO, ILL.

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Masonite
MANUFACTURED LUMBER FOR
STRUCTURAL INSULATION

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Builders who use Pondosa say no finer lumber grows

Pondosa — Pick o' the Pines — is the all-purpose lumber, known wherever fine homes are planned and reared. Preferred by leading builders for its satin-smooth finish, workableness and economy. Pondosa Pine is soft and light, yet strong. Takes nails in short grain without splitting—and, nailed or screwed, it's put to stay! Takes paint readily and finishes up in great style. Every trade-marked stick is rigidly *graded*, thoroughly *seasoned* and carefully *milled*. Ask for it by name. There's an abundant supply at good lumber yards everywhere. For interesting booklet, address Dept. 23, Western Pine Manufacturers' Association of Portland, Oregon.

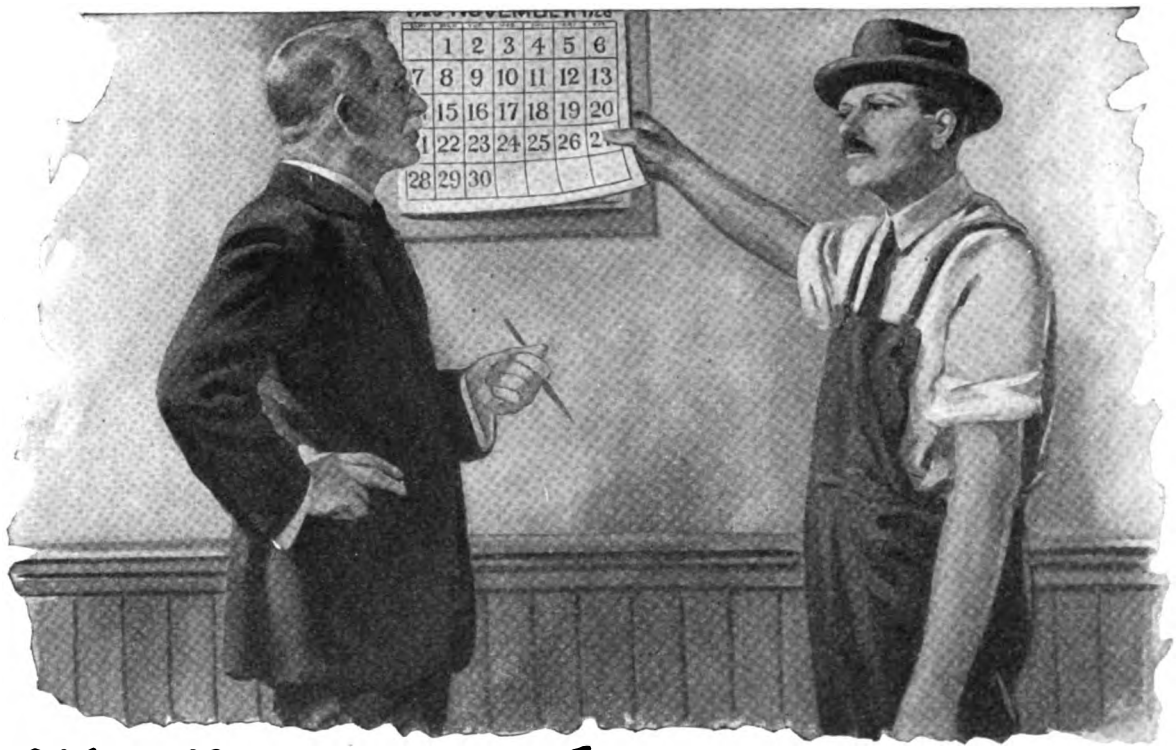


Write for this booklet.

Pondosa Pine

The Pick o' the Pines

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"We'll clip a week off that time"

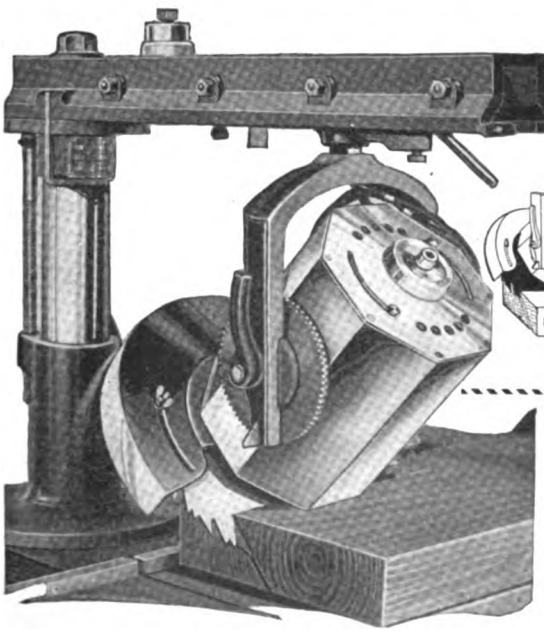
WHEN you *have* to do six days' work in one—when you are wondering how to make speed without sacrificing accuracy—that's when the DeWalt proves its worth. Saves 80% in time. Saves material. Saves costs. Use it right on the job—two men easily carry it. Power-saving direct drive—no wobbly belts. Work always lies flat—saw tilts, not the table. Tools changed in 30 seconds. Four convenient sizes.

The DE WALT ELECTRIC Woodworker

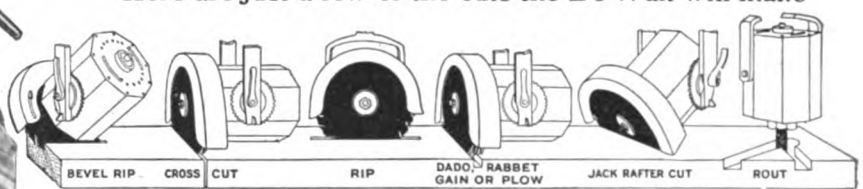
Demonstrated anywhere in U. S. Visit the De Walt exhibit at the Sesqui-Centennial.

Six Times Faster On All These Jobs

Jackrafter Cuts
Cross Cutting
Ripping
Mitering
Beveling
Matching
Polishing
Mortising
Tenoning
Moulding
Fluting
Dadoing
Routing
Sanding
Panel Raising
Turning
Boring
Grinding
Shaping



Here are just a few of the cuts the De Walt will make



Mail this Coupon TODAY

DE WALT PRODUCTS CO., 435 New Holland Ave., Leola, Penna.

Tell us, without obligation, why it would pay us to use the DE WALT Electric Woodworker.

Individual .....

Firm .....

Address .....

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This Idea Saves Money

A Detroit Builder Saves $500.00 On One Cottage

HERE'S HIS OWN STATEMENT: "After careful investigation I decided that what I needed was individual machines—saws, and jointers that could be operated independent of each other and direct motor driven from the light current without any bothersome belts.

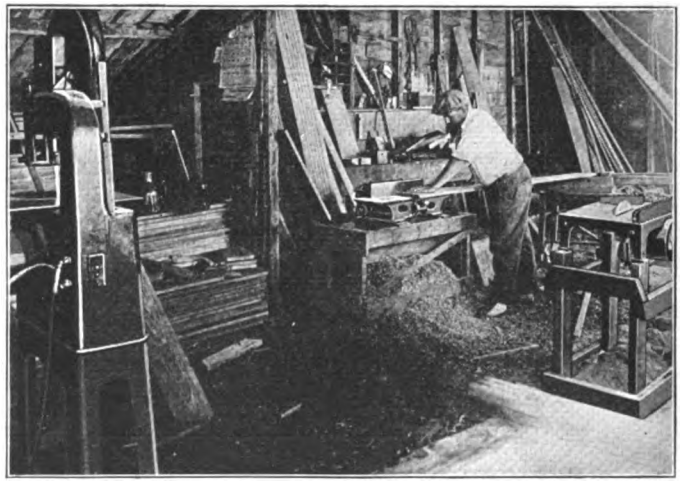
"I found Wallace machines highly recommended and bought a universal saw, a 6-inch jointer and 16-inch band saw and hand saw. These machines are all easily portable so I could move each one to its particular part of the job. They have surplus power to handle the heaviest cutting and their accuracy and high quality of work saved practically all hand sawing and planing both in the shop and on the job.

"On my first job, a $7,500 cottage, I saved over $500 in labor and materials. I cut my joist, studding rafters, flooring and siding, and from my waste stock made my bridgings and grounds much faster than by the old hand method.

"When I came to the trim I took my Wallace machines from room to room, mitred and dressed mouldings, panels, and fitted the windows and doors at a big saving of time. The specifications called for a built-in kitchen cabinet—mill price $52. It was delayed, so I made it myself at a total cost of $18.75. This opened my eyes to the ease with which such special work can be done on Wallace machines by men who are not cabinet makers.

"So I used up more waste stock (which, by the way, you don't get when you buy finished material at the mill) in making inexpensive ornaments that make a house sell more readily—trellis work for the porch, window boxes and a lawn bench. I made screens and storm sash.

"When the machines are not in use on the job I put them in my garage and make extra profits by working up old stock that has accumulated and ordinarily would be a loss."



ELMER WALKER (Medford, Mass.) started in the contracting business two years ago—he equipped with a Wallace 6" Jointer, Plain Saw, and Universal Saw. He can have the pick of the business, as his equipment makes it possible for him to underbid and still make greater profits than competitors. He takes these machines out on jobs too. The picture shows Walker fluting porch posts. He makes these posts during his spare time. They cost him $4.00 each and sell for $7.50 each—$2.50 under the mill price.

A most unusual guarantee is now being made by J. D. Wallace & Co. They will not only assure, but absolutely guarantee, a saving in time, money and materials when using Wallace portable wood working machines. The buyer is positively protected against any loss, for if the machines do not pay for themselves they can be returned for full credit within the trial period allowed. Trial machines will be sent anywhere, at any time, with this definite understanding. Write for details at once to J. D. Wallace & Co., 150 S. California Avenue, Chicago.

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Short Cuts for Builders!

A New Handbook! Built for Practical Builders! Designed to Save Time and Money! Best Dollar Buy in America!

Two Hundred and Fifty Short Cuts, every one practical; every one tested; every one unusual; every one helpful on the daily job; any one worth ten times the price of the book when applied to your work.

Partial List of Contents

Plans that can't be lost. A convenient blueprint box. A handy bench. Short cut in veneering. Making odd size doors. Emergency drill press fastening. Steep plank walk. A fixed hod rest. A convenient putlog support. Getting power for a concrete mixer. Material elevator for apartment house. Home-made brick hod. Ladder scaffold bracket. Steel worker's scaffold. Novel stone cart. Simple mason's scaffold. Storing glass. Piling cut stone. Protecting unfinished brick wall. Shed for storing face brick. Contractor's sign. A portable sign board. Convenient lime storage pit. Protecting brick from stucco stains. To keep sand from spreading. A way to pile tile roofing. Bracing walls in a frame building. Aid for holding door frames. To lay hard wood flooring using short pieces only. Fixing door frames firmly at the base. Framing for a telephone opening. Framing for a false beam ceiling. Nailing a tin siding corner. Framing for an ornamental statuary niche. Roughing in for a tile floor. Tools for making raked joints in brick work. Soldier course corners. Damp proofing with hollow tile. Ornamental joints in rough masonry walls. Shoring support for stone sill. Protect your cut stone. Formwork for a concrete cistern head. Reinforced concrete flower box support. Measuring cement for small mixer. Bonding a bumping post to a concrete floor. Formwork for a circular concrete terrace. Scaffolding for stucco work. Plastering for a "no trim" window. Framing for a coved ceiling. A slate roofer's stake. An aid in shingling valleys. A simple way of hanging sheet metal gutters. A roofer's scaffold. Soil pipe in narrow wall. Covering hot water pipes. Sizes of water supply pipes. Piping for future needs. Placing radiators. Registers in narrow wall. Holding bell wires together. Placing the meter box conveniently. A paint brush holder. A painter's scaffold. Patch for broken plate glass window. An underpinning well. Rollers for house moving.

Here, gathered in one volume, profusely illustrated, are the hard won experiences of hundreds of practical men who have used these kinks in their own work and proved them time and money savers.

Here are new and quicker ways of doing old jobs that come up in your everyday experiences. Here is help — real help — not theory. Every idea in the book is practical; has been used.

Why should you take an hour on a piece of work when somebody else has found a way to do it in 25 minutes and that way is shown in this book? Not once but many, many times during the year you will be able to utilize the suggestions this book offers. If you only find *one* kink that you can apply to your work the price of the book will be returned to you over and over.

We don't want you to pay a cent for Short Cuts for Builders unless you are thoroughly satisfied that it is worth *more* than the price charged.

Therefore we will send it to you on approval. Keep it 5 days. Examine it thoroughly. If you are not wholly satisfied, return it within 5 days and your money will be refunded at once.

It cost us $5,000 just to compile this practical work. Out of a mass of stuff we had to pick and choose the best and put it into shape for your use. Therefore we have every confidence in it and in its helpfulness to you. Hence our faith in the book and our willingness to refund your money at once if you wish it.

Fill in and mail the coupon *today*. Just pin a dollar bill to it. We'll take the chance. But do it TODAY!

Size 6x9. 160 Pages. Fully Illustrated.

Price $1.00

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243 WEST 39th STREET NEW YORK, N. Y.

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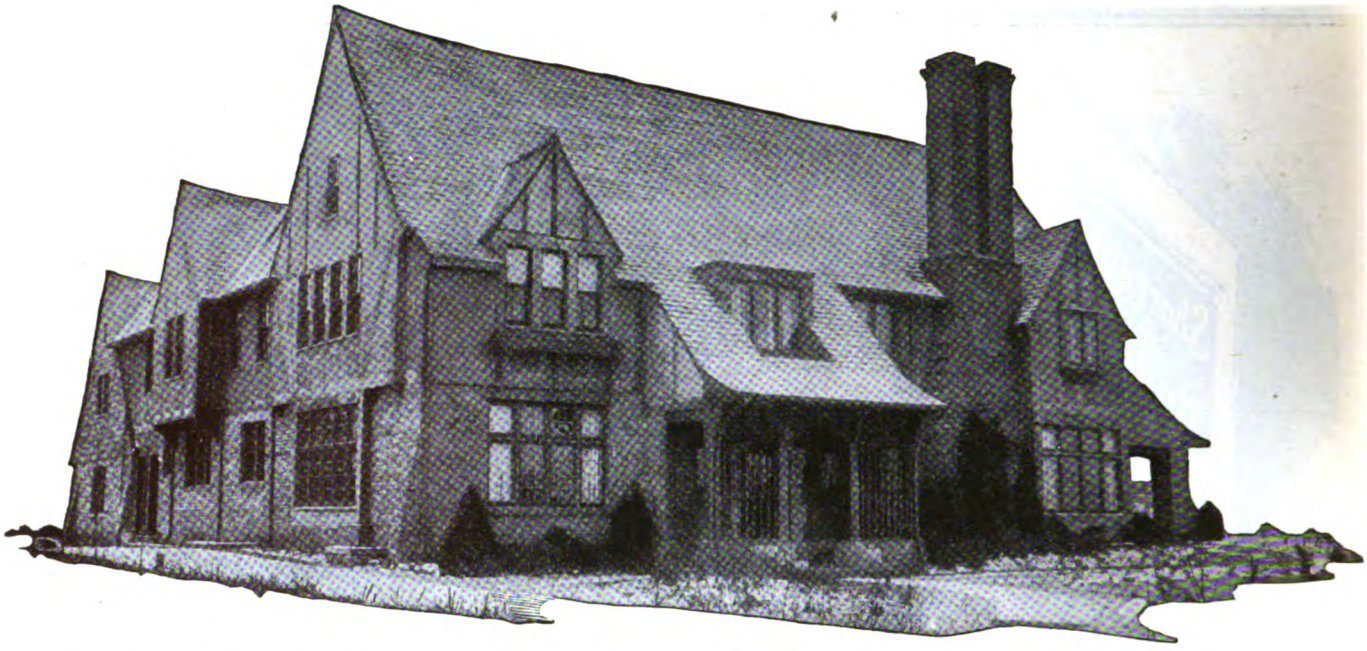
Enclosed find $.....for 250 Short Cuts for Builders.

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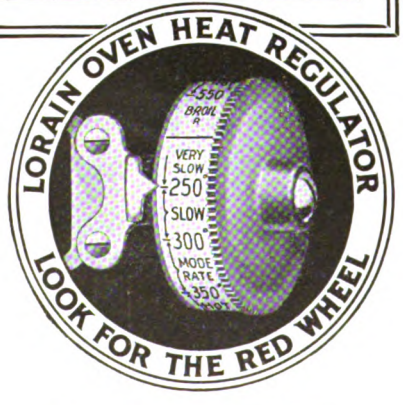
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Make Room for Kitchen Progress

Illustration above shows residence of Mr. J. Paul Zens, 2891 Paxton Road, Shaker Heights, Ohio. Architect, Philip Lindsley Small, Cleveland, Ohio. Below: Interior view of kitchen with Lorain-equipped Dangler Gas Range.





One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.

Unless the Regulator has a RED WHEEL it is NOT a LORAIN

THE provision of adequate space for a Lorain-equipped Gas Range of cooking capacity in proportion to the size of the household should be a major consideration in planning the kitchen.

Women examining new homes look for the Red Wheel that identifies the Lorain Self-regulating Oven, because it means perfect cooking, easy canning and leisure.

More than 1900 school and university domestic science departments use Lorain Red Wheel Ovens. Millions of women see the Red Wheel advertisements that appear continually in their favorite magazines.

Lorain Red Wheel Ovens are built only in the following famous makes of Gas Ranges: **Reliable, Clark Jewel, Dangler, Direct Action, New Process** and **Quick Meal.** For specific data see Sweet's Catalog, 21st Edition, Pages C2977-C2986, or send for our *Handbook on Gas Ranges for Architects and Builders.*

AMERICAN STOVE COMPANY

Largest Makers of Gas Ranges in the World

222 Chouteau Avenue ∴ St. Louis, Mo.

LORAIN OVEN HEAT REGULATOR

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The Best Thing I Ever Used"—

C. J. Bollnow
430 No. Spring St.
La Grange, Ill.

"Enclosed find my check for the 'Trouble Savers.' I found them the best thing I ever used and I will want some more."

That is, in short, the sum and substance of the opinions of every builder who has ever used TROUBLE SAVER Carpenter Brackets—"the best thing I ever used."

The name, TROUBLE SAVERS, only begins to tell the story; they're time, money and material savers as well. You can put up a set of TROUBLE SAVERS in a small fraction of the time it takes to erect wooden scaffolding. This in itself saves a lot of money—but in addition you can put up TROUBLE SAVERS with unskilled labor. TROUBLE SAVERS outlast a hundred or more sets of wooden scaffolding. They're many times stronger than the old-style wooden scaffolds.

THE STEEL SCAFFOLDING CO.

1103 N. Governor Street Evansville, Indiana





Trouble Saver Adjustable Trestles are furnished in six different sizes that give a range in height by 3 inch lifts from 16 inches to 10 ft. Can be set up and adjusted to the exact height desired in a few seconds.



Trouble Saver Carpenter Bracket. Hooks around the studding and stands firmly on two legs. Will support a ton weight. Far superior to any other method of supporting scaffolding on small buildings.



Trouble Saver Stucco Bracket is quickly attached with four nails. Stands firmly on two legs.



Trouble Saver Ladder Jack. Gives firm, safe support whether adjusted above or below the ladder. Rests on three rungs.



Trouble Saver Asphalt Shingler for composition shingles.
Trouble Saver "Snapping Turtle" Shingler for wooden shingles.
We also make **Trouble Saver** Sectional Steel Scaffolding for use on high buildings.

Mail the coupon for prices, full information and details of our 30-day trial offer.

THE STEEL SCAFFOLDING CO.,
Evansville, Indiana

Gentlemen: Please send me prices and full information on your TROUBLE SAVERS—also details of your 30-day trial offer.

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City .....
State .....

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A SUPERB LIBRARY OR DIRECTORS' ROOM

This beautiful Italian room of breath-taking splendor is one of a group of display rooms at the home office of the Marietta Manufacturing Company. Note how superbly the decorated black SANI ONYX panels harmonize with the rare, hand-carved mahogany. No other material surely would serve with such telling effect. What a superb Library, Directors' Room or Club Room this would make

IMAGINE a material far stronger and more enduring than marble, tile or plaster, yet lending itself to marvelous decorative effects possible in no other product.

That is SANI ONYX, the marvelous modern-day material for walls, ceilings, wainscoting, floors, and a hundred other practical purposes, in homes and public buildings.

SANI ONYX, you know, is a vitreous substance, fused from rock ingredients. It is available in six standard colors—White, Blue, Ivory, Green, Gray, and Black, and in a variety of textures including Flame Glaze, Semi-Matte, Matte, Tapestry, Polychrome and Embossed. Special sizes, designs and colors to order. Installed and guaranteed by construction houses in principal cities.

Canadian Factory—
Sani-Products Co., Ltd.
155 Richmond St., West
Toronto, Ontario.

SANI-ONYX
A VITREOUS MARBLE

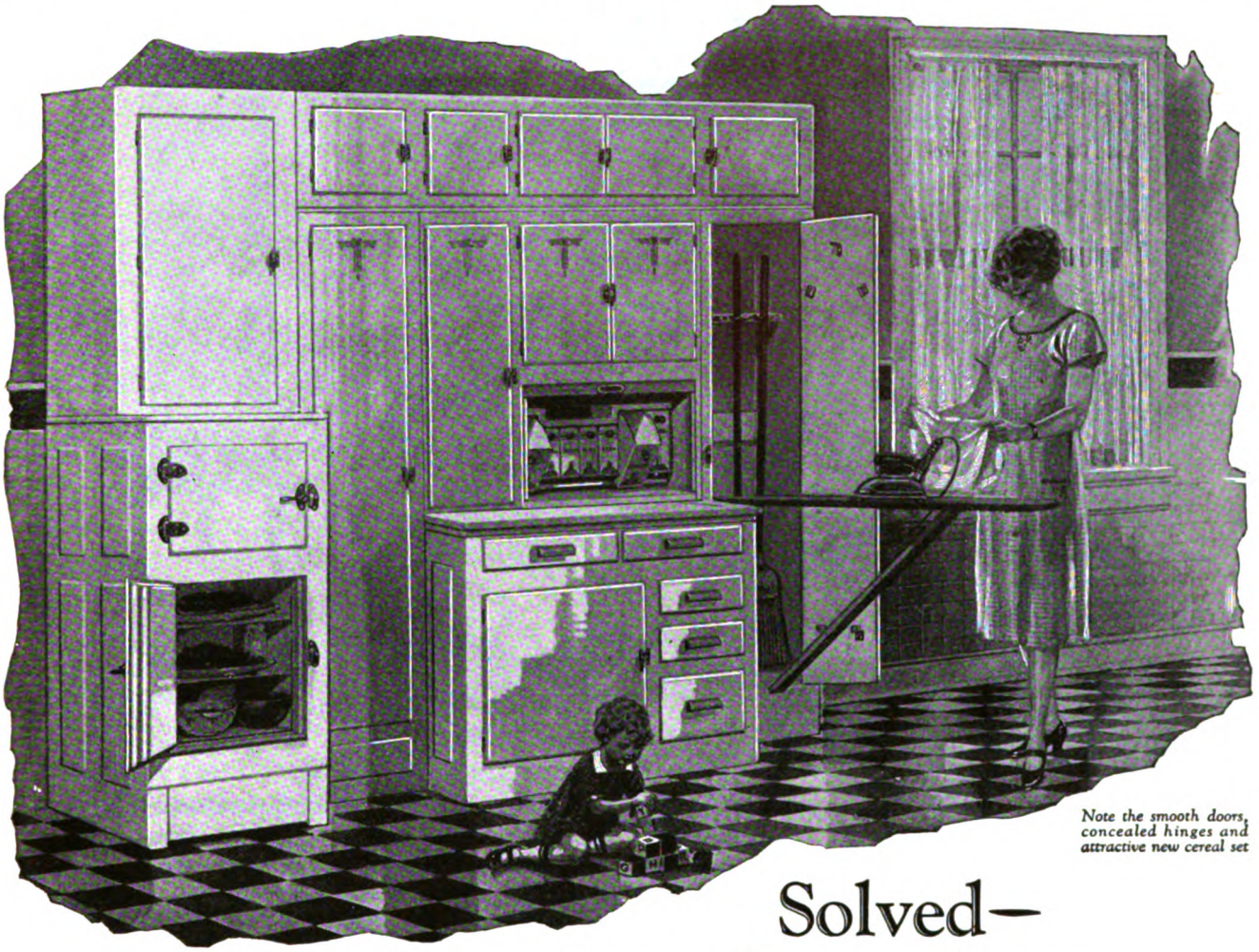
Send for a copy of our beautiful new book illustrating actual SANI ONYX installations in full color.

MARIETTA MANUFACTURING COMPANY ✦ 85 Brookside ✦ Indianapolis

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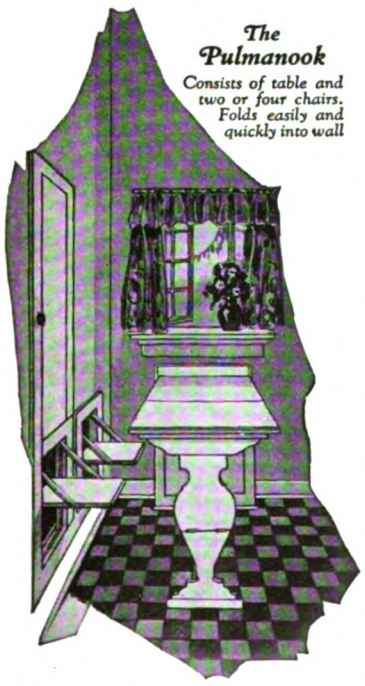
KITCHEN MAID

STANDARD KITCHEN UNITS



Note the smooth doors, concealed hinges and attractive new cereal set

Solved—
the problem of convenience in limited kitchen space!



The Pulmanook
Consists of table and two or four chairs. Folds easily and quickly into wall

No matter how limited in space, your kitchens can have convenience that will win the praise of every prospect. Scientifically designed Kitchen Maid Units provide all the storage and working space a woman needs. They are built by specialists in kitchen equipment.

These harmonized units cover every use—from kitchen cabinet to refrigerator, from disappearing "breakfast nook" and folding ironing board to linen cupboards, from sink and range to broom and dish closets. Each unit is complete in itself—can be used alone or in combination with other units.

Kitchen Maid Units alone provide the added cleanliness of rounded inside corners and smooth doors. Only these units can offer Kitchen Maid construction, beauty and efficiency. Yet Kitchen Maid Units cost no more installed than old-fashioned cupboards.

You'll profit in money and reputation by installing these time and labor saving units in your kitchens. Mail coupon for catalogue, dimensional drawings and prices.

WASMUTH-ENDICOTT COMPANY
1512 Snowden Street, Andrews, Indiana

"Let the Kitchen Maid Be Your Kitchen Aid"

KITCHEN MAID
STANDARD UNIT SYSTEMS

WASMUTH-ENDICOTT CO.
1512 Snowden St., Andrews, Ind.
If in Canada, Address Branch Office, Waterloo, Ont.
Please send catalogue and full information about Kitchen Maid Units to:

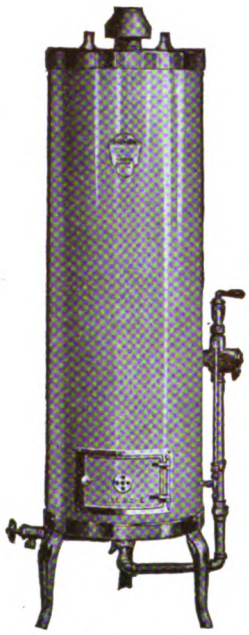
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City..... *State*.....

Kitchen Maid Equipment Used in All Model Homes Built by Home Owners Service Institute

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PREMIER

The best water heater Crane offers. No. 2, 23-gallon capacity for average homes, f.o.b. factory $125

With Copper Tank $225



15 kettles of Instant Hot Water

REG. U.S. PAT. OFF.

always waiting to flow

Other size heaters to meet all demands



KEYSTONE

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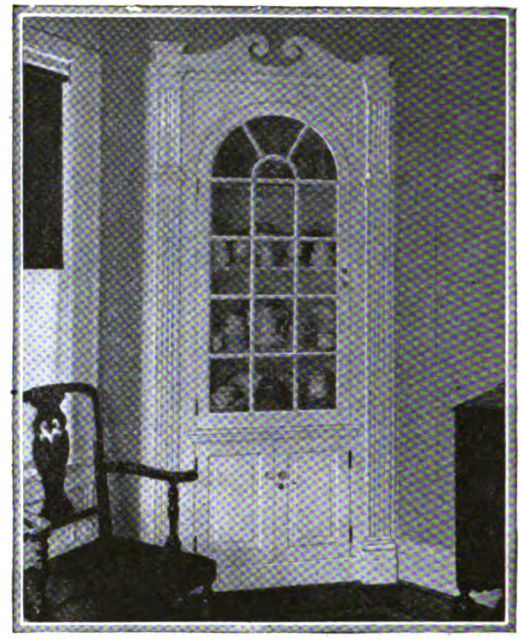
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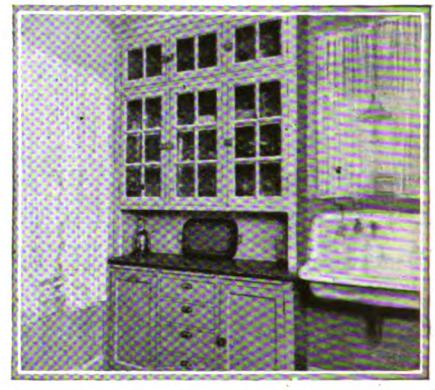
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Convenient Homes ARE HAPPIEST

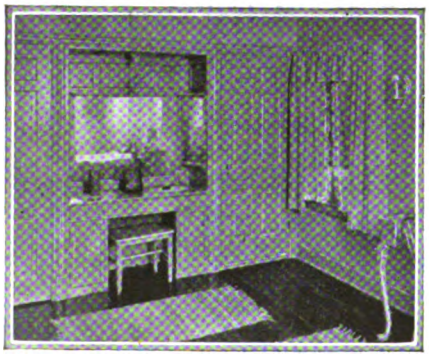


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YOUR OUTLOOK for 1927

More than 350 men have paved the Proven Way to Your Independence and safe future



Are you thinking of your future,—dreaming of the time when you will have won Independence? Are you waiting for the chance to own and manage a manufacturing business? Would you like to be the boss of such a business, drawing a substantial yearly salary? Does a 20% to 60% dividend on your investment interest you? Yes? Then get the facts on how 350 other men—from all walks in life—have cashed in on Duntile,—the perfected all-purpose building unit.

Don't envy the men who have won prestige and are enjoying the privileges that come with independence and the assurance of a safe future. They got these through exercising their initiative. You, too, have the same opportunity to forge ahead in a manufacturing business of your own. Read this offer—it tells how you can win independence by following the proven way paved by over 350 alert men.

"I Am Thankful to the Almighty

for the consideration bestowed upon my children and invalid wife. My DUNTILE home is the best investment ever made. Before the hurricane there were fourteen houses in the surrounding five blocks—today my house stands alone amid the wreckage of lumber, wire, lath and clay tile." Thus writes Mr. H. C. Brook of Ft. Lauderdale, Florida. And here's what Mr. J. K. Huey, the building inspector of the same city has to report: "I am pleased to report that of the more than thirty buildings erected in this city of Duntile, all of them have stood intact, which is an evidence to me of the splendid bonding qualities of your product."

Out of Such Evidence Still Greater Opportunities Are Created for You

Dozens of letters have come to us telling how Duntile withstood the disastrous Florida hurricane. Not one instance of failure has been discovered. No humanly devised tests could possibly reveal the true merits of Duntile as did this devastating wind storm. Eyes have been opened to the absolute safety of Duntile walls, emphasizing anew the marked superiorities of this perfected all-purpose building unit—the unit that builds better buildings, and builds them cheaper. To manufacture this product in your own factory is indeed an opportunity never before equalled.



Win With Duntile

Duntile has national recognition,—national acceptance. In thousands of instances it has been demonstrated that Duntile builds better buildings cheaper. This is proven true in schools, banks, hotels, apartments, office and store buildings and palatial residences,—on down to modest cottages. Duntile walls are permanently strong, permanently insulated, permanently firesafe, permanently beautiful, and permanently free from maintenance and repair expenses. In all of these walls—thousands of them—Duntile effected a saving to the owners,—as high as 30% over the cost of brick. Every day sees new Duntile Victories. Get the facts; find out how you can win with Duntile.

Be Independent Own Your Own Business

Duntile has to be manufactured locally. It's the only way enough of it can be made economically to satisfy the market in each community. That's why you have this opportunity to own a Duntile factory,—a business that will afford you the fulfillment of your desires for independence and prosperity—and a safe future of ever-increasing rewards. Get the facts; find out why it pays so handsomely to be a Duntile Manufacturer.

Join This Nation-Wide Organization

Over 350 men have paved the proven way to your own success in the Duntile business. You can be one of them, enjoying the fruits of their experience and profiting through their achievements. You can start as they did, with just enough capital to cover the modest investment in a standardized plant. Get the facts; find out how easily you can start on your way to manufacturing independence as a member of this nation-wide group.

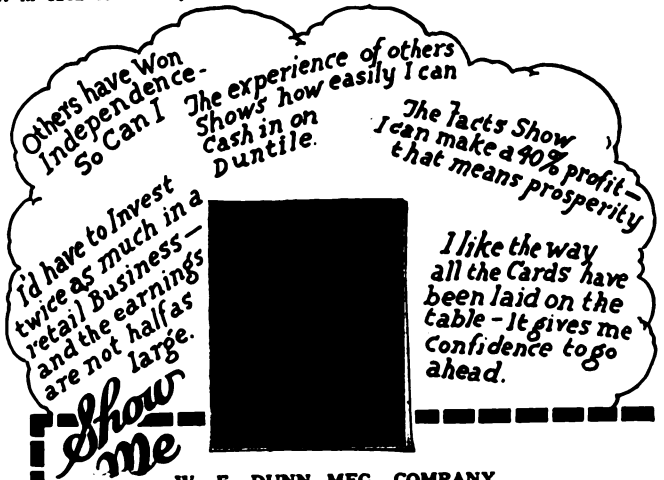
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$150,000,000 Worth of Buildings Will Call for Duntile During 1927

This year, just closing, saw Duntile enter into the walls of buildings that totalled $125,000,000 in value. Next year, now upon us, will see Duntile contribute itself to the erection of buildings worth $150,000,000 or more. That means big business ahead for Duntile manufacturers. Big earnings are assured. Now is the time to plan for your share of this tremendous volume. Get the facts; find out how you can cash in on this expanding Duntile building program.

Get This Free Book

You are not asked to accept any claims nor to decide on promises—we want you to consider only the facts concerning the Duntile business. All of these facts have been put into a most interesting and highly informative book. A copy of "Basic Facts" is yours for the asking—free. The coupon makes it easy for you to get it—Now.



W. E. DUNN MFG. COMPANY
700 W. 23d Street, Holland, Michigan

SHOW ME through your book, "BASIC FACTS," the facts and figures that prove how average ability and some capital win manufacturing independence for those supplying DUNTILE IN EACH COMMUNITY. Also show me how I can manufacture DUNTILE in a plant of my own at a profit of 30% to 60%.

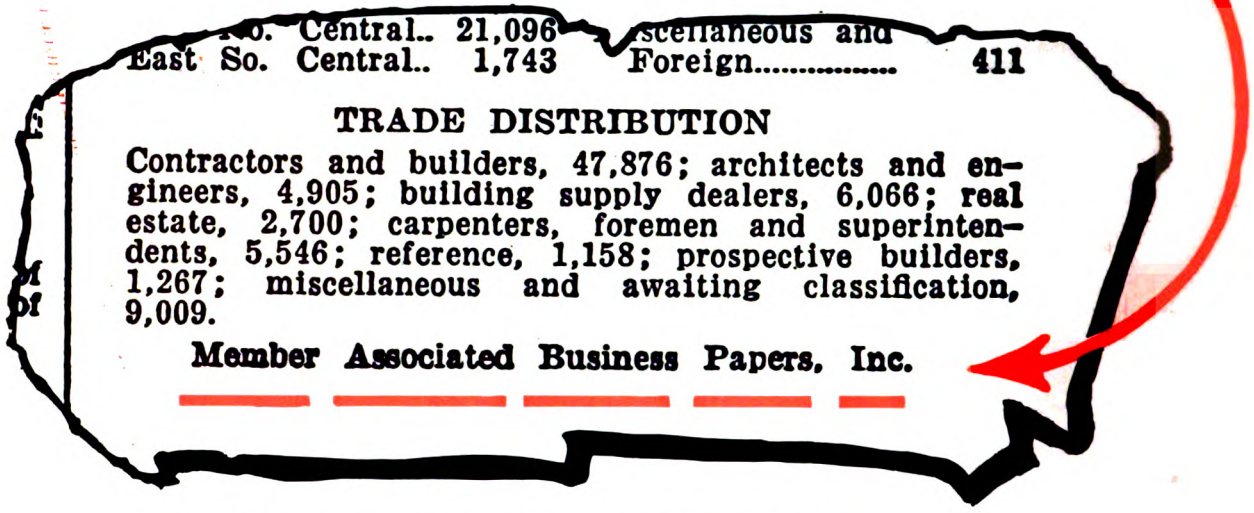
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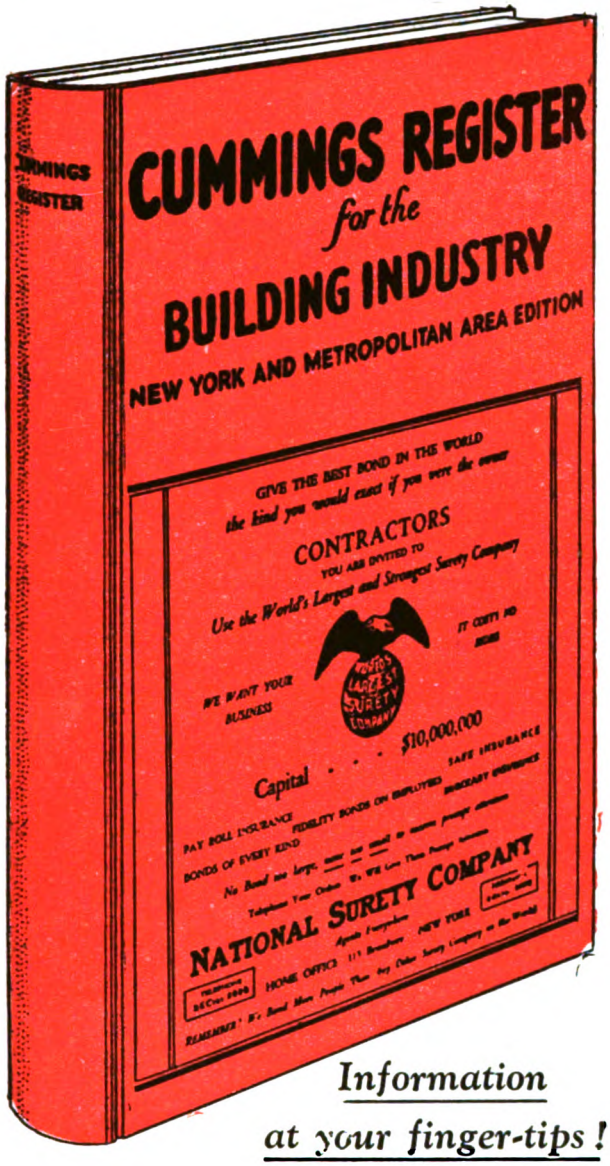
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Summary of Contents

MATERIAL AND EQUIPMENT SECTION—A list of building materials, supplies and equipment, arranged in alphabetical order from "Acetylene" to "Zinc" showing manufacturers and dealers in these products; the name, address and phone number of local representative, etc.

SERVICE SECTION—A list of architects, engineers, general and sub-contractors and others having a service to render to the Building Industry; arranged alphabetically and geographically, so as to be instantly accessible.

INFORMATION SECTION—Here will be found the Building Code of the City of New York with amendments up-to-date. Tenement House Regulations. Sidewalk Regulations. The Mechanic's Lien Law. Where to Obtain Permits. Essential Information Concerning Workmen's Compensation Law, Workmen's Laws Relating to the Building Industry. Latest Zoning Laws. Municipal and County Officials, their addresses and telephone numbers. Officers and Represented Members of Building Trade Employers' Association and Building Trades' Council of New York. Architectural and Engineering Societies, etc.

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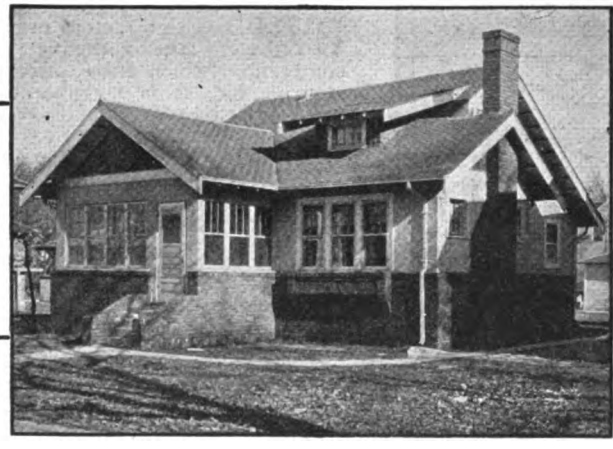
FLAX-LI-NUM hurries the sale to a successful close. Hundreds of builders, in every climate, have proved that this superior insulation is a convincing talking point.

And no wonder it helps so marvelously! Built into side walls and roofs, FLAX-LI-NUM reduces heating costs a full third. This constant economy throughout the years more than repays its cost.

In summer it so effectively shuts out the broiling heat of the sun that the home is comfortably cool, even on the hottest days.

Complete absence of repair cost — never a need for replacement — with over 16 years of successful performance to prove its economy. FLAX-LI-NUM insulated homes *do* sell easier. Should the owner have to dispose of the property, a good price is assured and a ready buyer is easily found.







W. G. IVERSON, builder, of Minneapolis, Minnesota, has used FLAX-LI-NUM for a number of years in all his homes. Mr. Iverson knows the need for genuine insulation. Read what he has to say:

"I have specialized for a number of years in building small and medium sized homes. Of late years I have insulated with FLAX-LI-NUM every house that I have built.

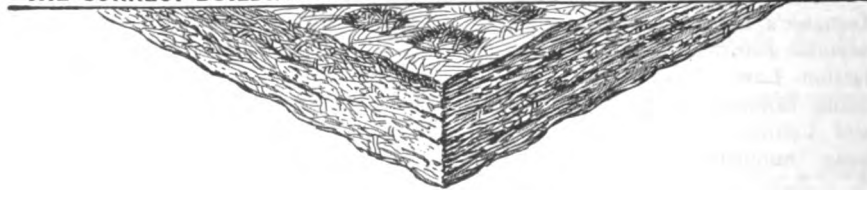
"I chose FLAX-LI-NUM because it was the best known insulating material, and had behind it a record of performance that left nothing to be desired from the standpoint of merchandising it in connection with home building and home selling.

"As you know, all of my own advertising carries the slogan, 'I Refuse To Build A Home That Is Not Completely FLAX-LI-NUM Insulated.' I do this because I know that the average buyer of the medium priced home is in need of the savings which the insulation brings him. Calling insulation to the buyer's attention strikes him agreeably and I can truthfully state that the effort required in making a sale is greatly reduced because of the fact that FLAX-LI-NUM is incorporated in all of my buildings."

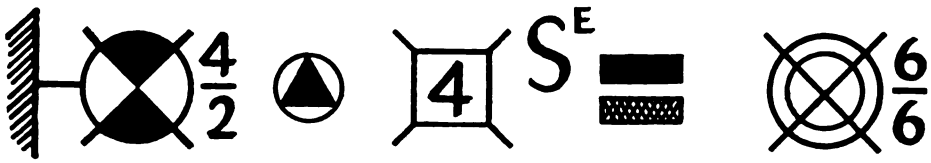
FLAX-LI-NUM INSULATING COMPANY, *St. Paul, Minnesota*

Flax-li-num

THE CORRECT BUILDING INSULATION AND SOUND CONTROL MATERIAL



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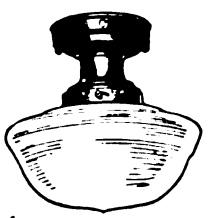


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A FORMULA to help sell houses? Certainly. Written with symbols for the magic of light, expert seller of buildings.

Put plenty of lighting symbols in your plans, tie them up to quality fixtures of the grade that Graybar recommends—and watch them work! You can fill a building with salesmen like these. Proper lighting in home, office or factory means an easier sale for you and more satisfaction for the buyer.

To help in placing such cheerful salesmen where they will do the most good, Graybar is always glad to lend its aid. This cooperation is of real value, according to builders who have worked with Graybar in planning a magic formula to make selling easier.



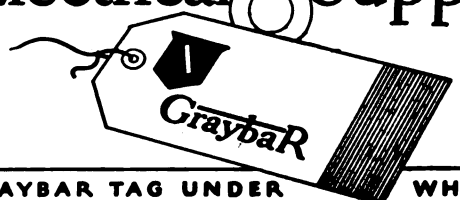
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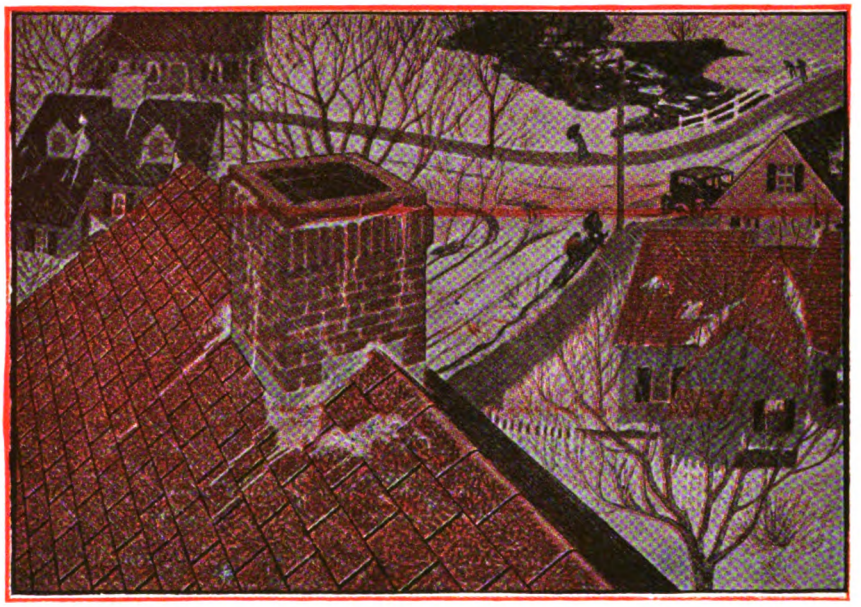
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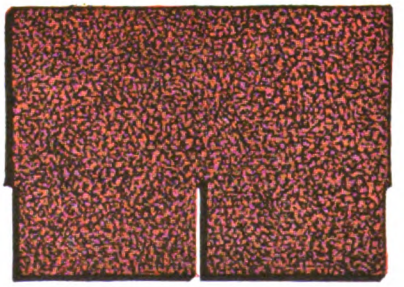
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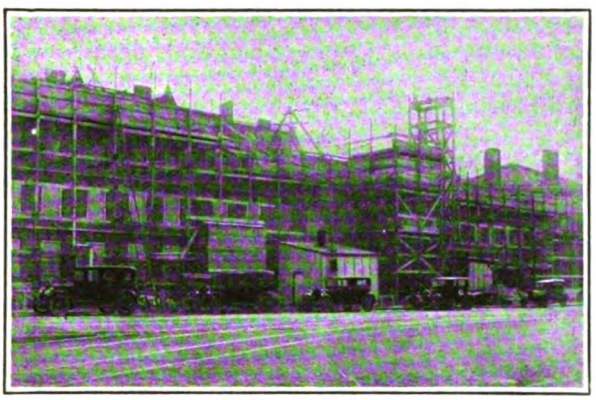
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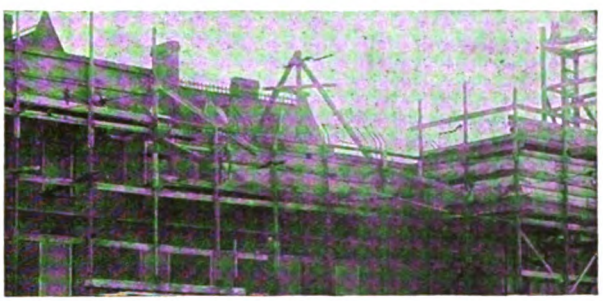
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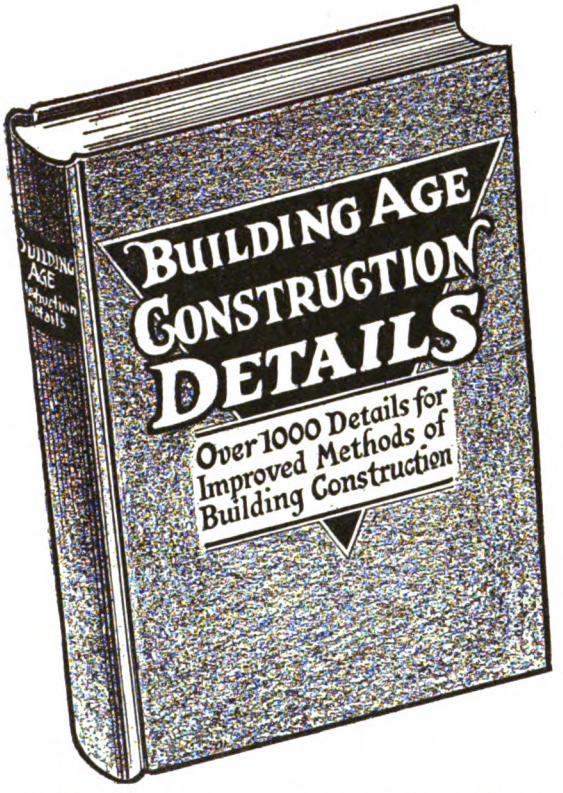
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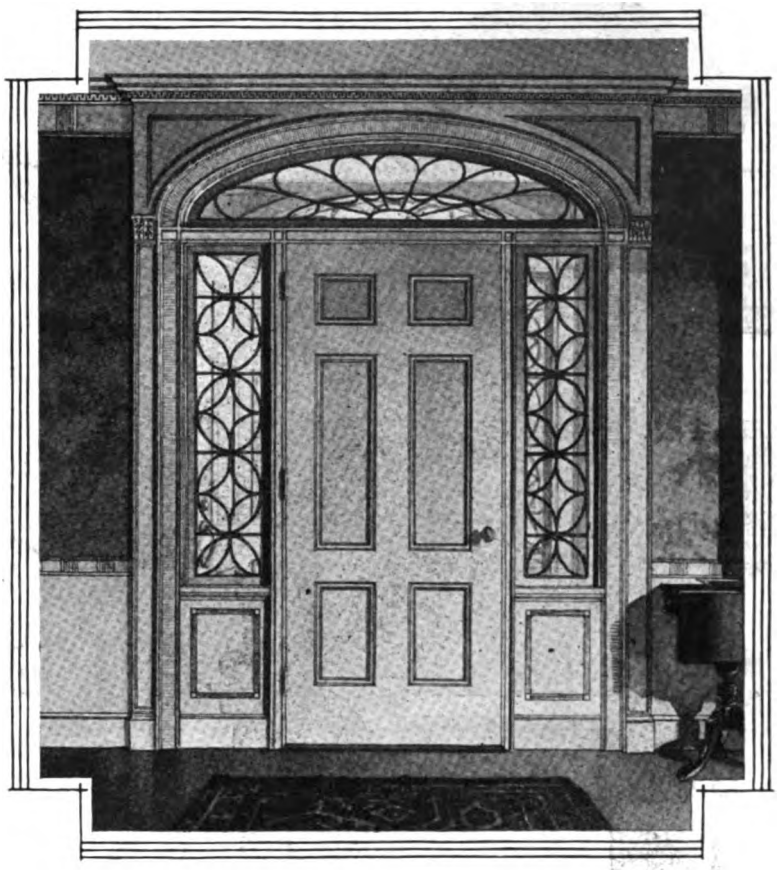
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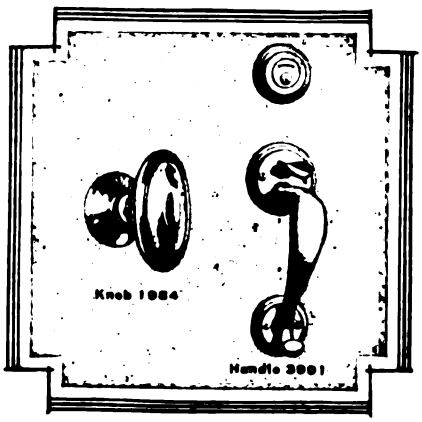


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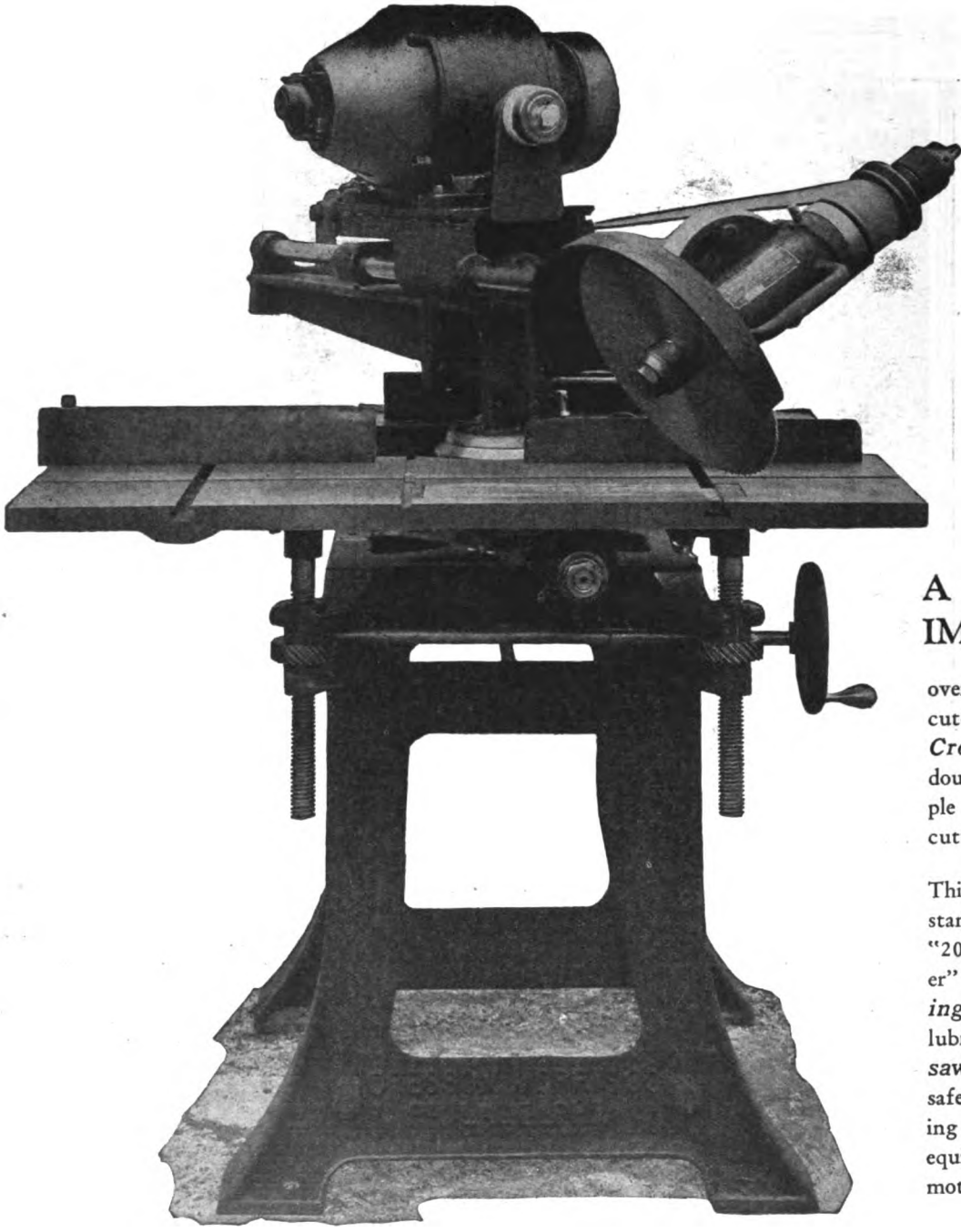
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over the plain straight line cut-off saw. ***The Tilting Cross-Cut Arbor*** makes double angle cutting as simple and easy as plain cross-cutting.

This is only one of the outstanding features of the "20th Century Woodworker" such as ***full ball bearing construction*** (Alemite lubricated), ***separate rip-saw,*** removable steel lip, safety head, 6" jointer, boring attachment and sander, equipped with standard stock motor.

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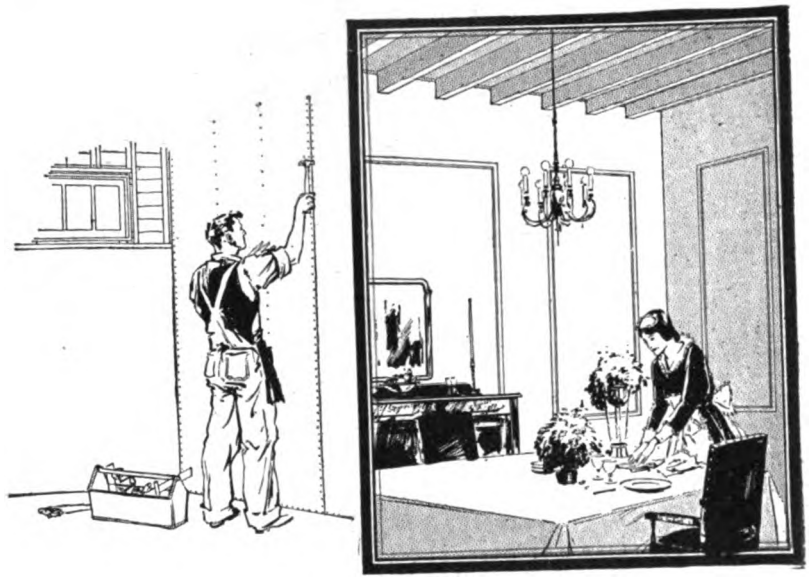
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You can always tell the genuine Bestwall by its distinctive cream color and the famous Beaver trade mark.

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A *tough fibre surfacing*

Plaster wall board should be able to stand up under the shocks and jolts and thumps that walls receive in daily service. So the Beaver Bestwall people have surfaced their Bestwall for greater strength.

Its *fibre* surfacing is a special kind made under Beaver supervision in Beaver mills. It protects the rock plaster core of Beaver Bestwall the same way the cover on a baseball or golf ball protects.

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This smooth, hard, *fibre* surface, carefully sized and calendered, makes Bestwell decorate more beautifully with a full, even, richness of color. It does not drink up paint or calcimine, so there is a valuable *saving* in both labor cost and materials.

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It's the cream-colored plaster wall board

Make sure you get the superior plaster wall board—Bestwall—longer-lived because it is stronger; more pleasingly decorative because of its exclusive surface.

You can tell it by its pleasing cream color and the famous Beaver trade mark.

Made in its entirety by Beaver, outside purchasing is eliminated and the cost to you is thus kept at a figure no higher than is asked for plaster wall boards lacking Bestwall's advantages.

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THE SUPERIOR PLASTER WALL BOARD

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
DECEMBER, 1926

A Merry Christmas

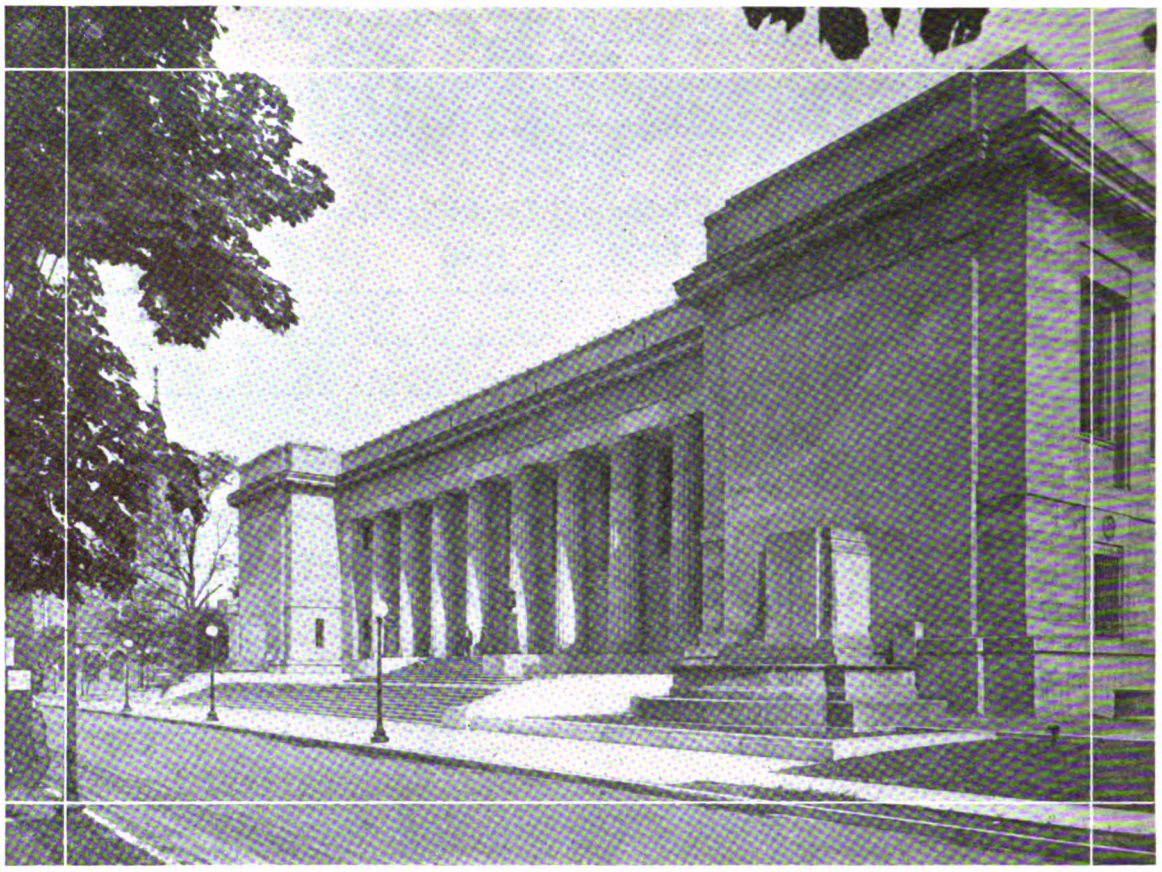
NEAR the close of the most successful year the building industry has ever had, we may all feel thankful for the part this industry has played in its own and in the nation's prosperity. Our readers, our advertisers and our contributors all share in the good wishes we extend for the merriest of Yuletides and for an even greater measure of the world's goods and happiness in the year to come. We have predicted for 1927, a six billion dollar building program, and our forecasts in the past have erred only on the conservative side. So in all truth we can gladly say:

A HAPPY NEW YEAR

The Staff

BUILDING AGE AND NATIONAL BUILDER

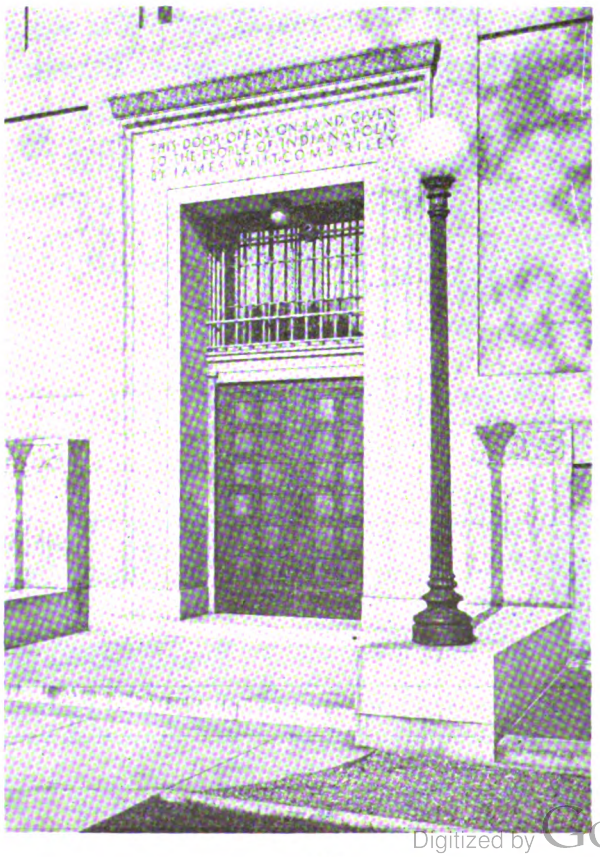
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An Appreciation by

Ralph Adams Cram

A Library of Pure



I CAME upon this building almost by accident and the first glance was sufficient to indicate that here was a work of purity and distinction, well outside the limits of contemporary experience. If the quality of distinction is, as I have sometimes described it, "the doing of the unexpected pleasantly," then this is a work of superior distinction. Nothing is exactly what the academically trained classicist would expect, and yet every detail, every element, gives the keenest pleasure.

It is Greek Doric, and yet there is nothing of cold archaeology of mechanical reproduction. It almost seems as though the architects thought themselves into the Hellenic spirit and then expressed themselves frankly and simply, without stopping to think whether what they did had sufficient precedent on the Acropolis, at Paestum or at Girgenti. The whole thing is not only Greek in form but penetratingly Greek in spirit. Yet it is a thoroughly modern building, with a highly articulated plan and, as I am told by those in authority, perfectly adapted to its function.

To me the most notable qualities in the exterior are scale and surface. It is not a large building, yet the scale is so delicately preserved that one does not think of dimensions. As for the surface, that is to say, the horizontal and vertical projections, the placing and relief of the ornament, I cannot recall any building in modern times that is more notable in its sublety and its distinction. The polygonal bases of the great columns of the porticoes, and the frieze with its sensitive modelling and strikingly decorative forms, are certainly masterpieces of the most finely felt art. There

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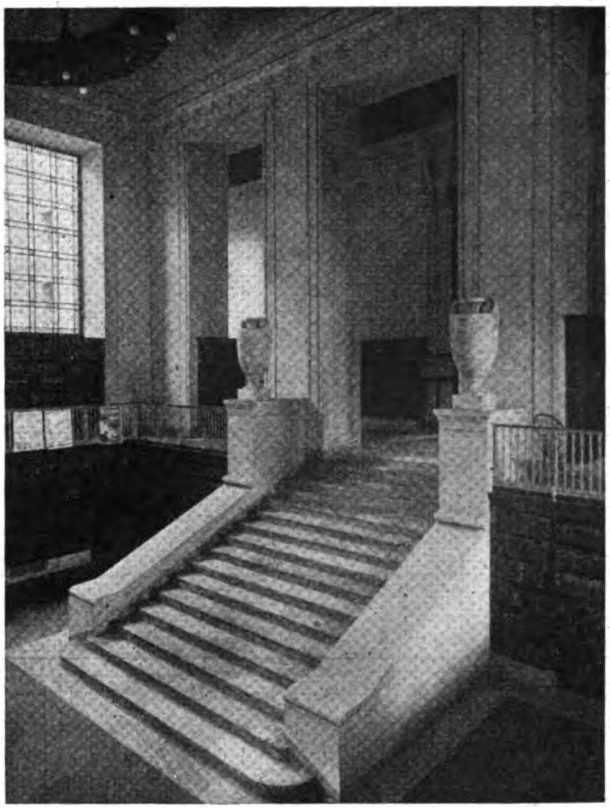
is, perhaps, no greater test of good architecture than the manner in which ornament is placed. In the Indianapolis Library the placing of ornament is as judiciously and sensitively determined as anything I know in architecture.

The interior is in every respect up to the level of the exterior. The conception of the central hall is striking and unique. Here we have a lofty interior, rectilinear, simple to a degree, with a sort of gallery surrounding it at a low level, separated from the room itself by rectilinear openings.

The elements are of the simplest. Nothing is overdone or wasted, and the enormous success of the result follows from proportions that are fine and sensitive to the point of perfection, and from the altogether extraordinary surfacing of the walls.

In point of color this interior is more than up to its standard of form and surface and line. The ceiling of the great hall is an altogether astonishing piece of decoration, with a subtlety of line, a serenity of spacing, and a purity of color that are rather staggering to those who have been brought up on the ordinary sort of thing that is generally served up as "color decoration." The same clarity and distinction of color run through all the other important rooms, where the only criticism one can offer is that the chairs and tables verge so dangerously on the edge of "office furniture" that they go far toward destroying the harmony of the architectural composition. Rooms such as these demand furniture of a fineness of form such as that of the French Empire.

Altogether I cannot help feeling that this Indianapolis Library is one of the most distinctive and admirable contributions to architecture that have been made in America.



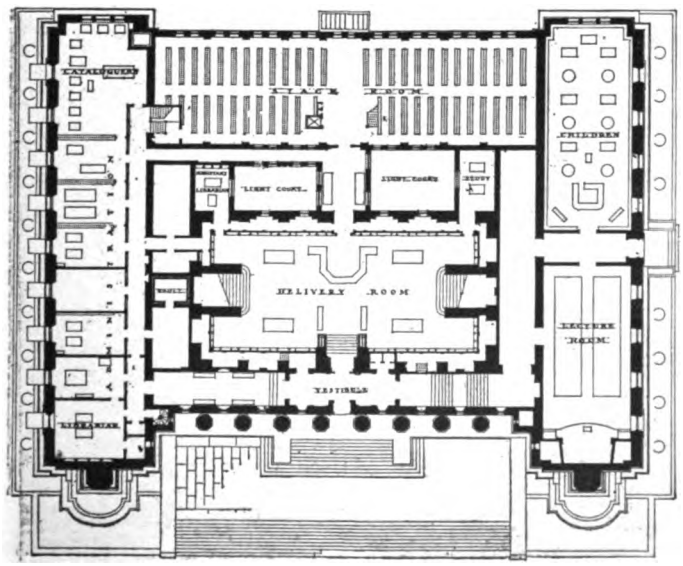
Showing the Simplicity of Interior Detailing

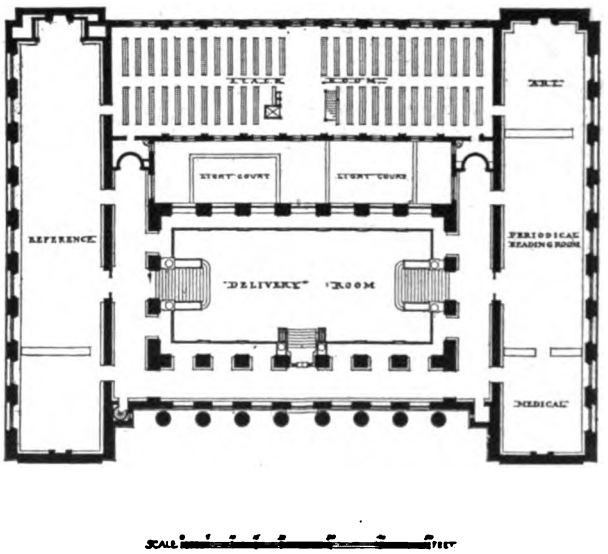
Greek Expression

Cret, Zantzinger, Borie & Medary, *Architects*

Indianapolis Public Library

A Building That Combines the Beauty of Classical Design With All the Utility of a Strictly Modern Public Institution





THE feature of the main floor is the Delivery Room—a richly ornamented expression of Pompeian style. This extends two floors, while flanking it on either side are lecture halls, reference rooms, and divisional departments for Art, Medical and Children's Books. At the rear, book stacks are located, within easy reach of Delivery Room. On the second floor, departments have direct access to stacks and to delivery room.

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The Design of a Quadraplex

Four Family Homes Built and Owned by Sidney Harris, Flushing, Long Island, N. Y.

Architect, Alex MacLean
Jamaica, N. Y.

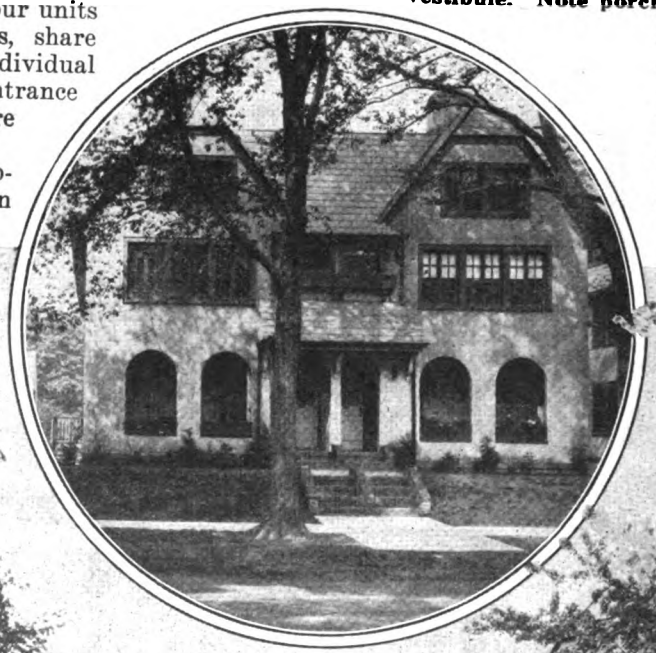


Lower floors are reached through the sun porches. The door for one right unit is shown at the right of vestibule. Note porch enclosure for right hand unit

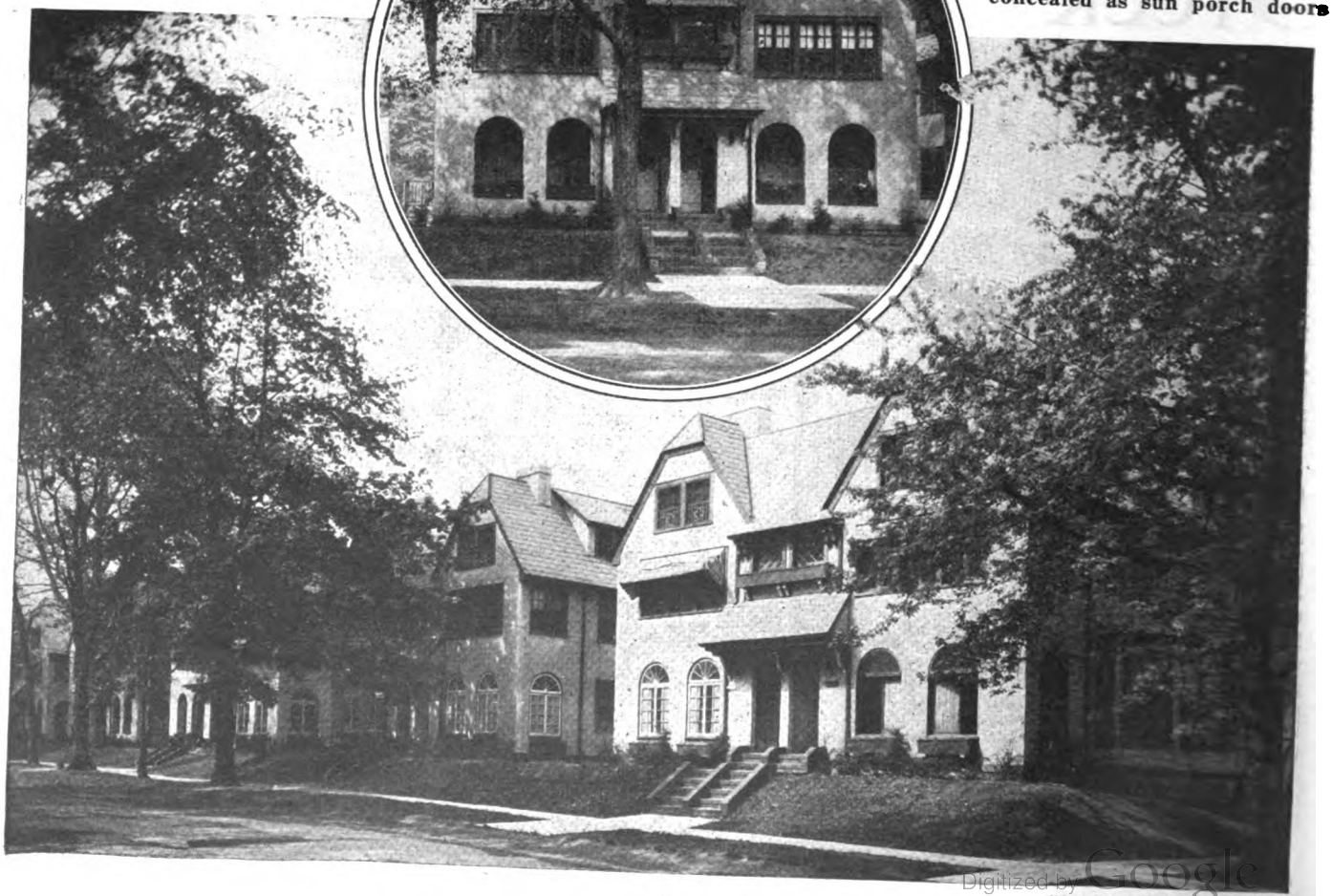
THE success of the duplex has given rise to another logical development in suburban housing; namely, the Quadraplex. In many respects this differs only slightly from the small apartment building. On the other hand, it introduces a note of residential privacy that is usually lacking in apartment housing.

It may be said that the four units in each of these buildings, share nothing in common. An individual front entrance, a service entrance to cellar, and a garage are provided for each tenant.

So cleverly have these separate front entrances been



TWO interesting views of Mr. Harris's development. To all appearances these are duplex dwellings; two of the four individual entrances are concealed as sun porch doors

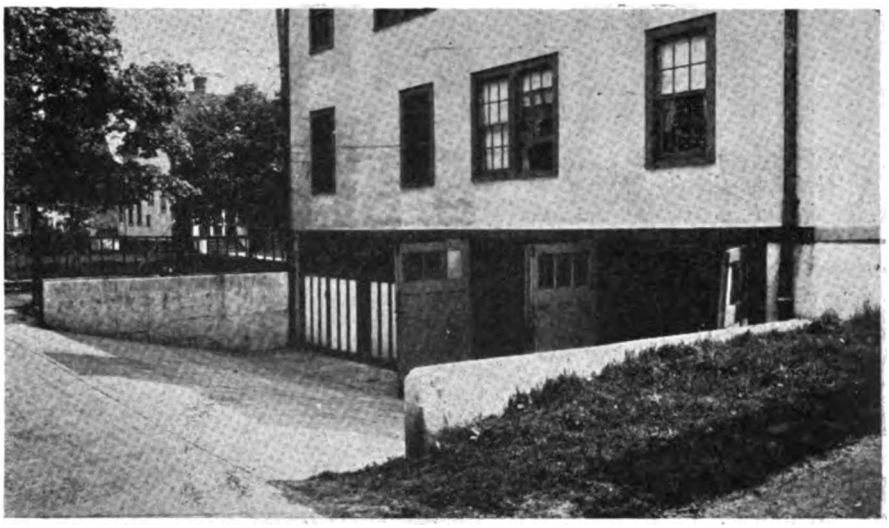


Photos by Browning Studios

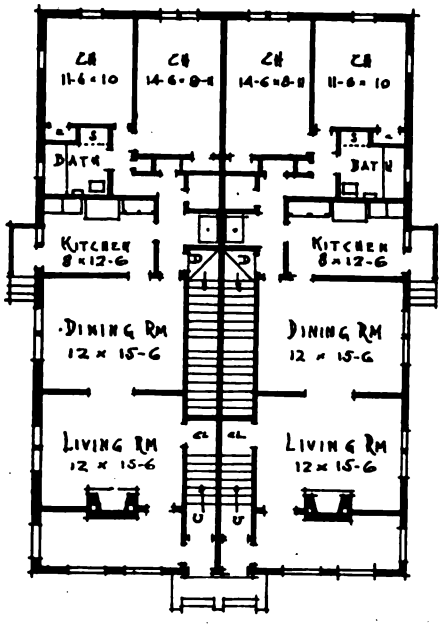
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masked that to all intents and purposes, the two families on either side of the building share the same front door. As a mattter of fact, the doors that are visible to the passer-by lead to the upper floors, while down-stairs tenants enter through their own sun porch. This feature is probably the keynote of these Quadraplex's success. They pass as large well designed Duplex's, while serving just twice the number of families.

It is interesting to consider the economies of this type of building as compared to the Duplex. No additional dividing wall need be built for one thing. Another item: plumbing, an expense to be seriously considered in the Duplex, adds an additional cost only in proportion to a two-family house. Foundation and framing for these structures figured in excess of a Duplex as might be expected. However, it is easily seen that the cost would be materially less than that of two 2-family homes.

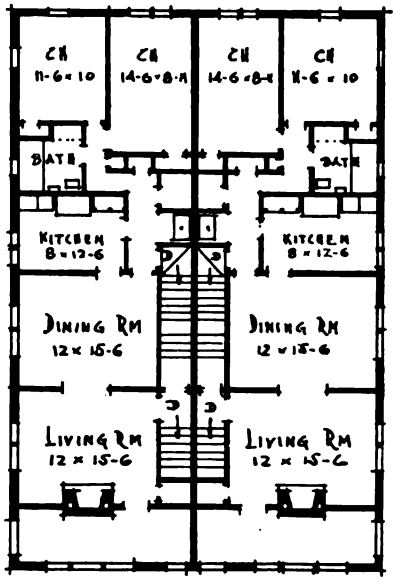


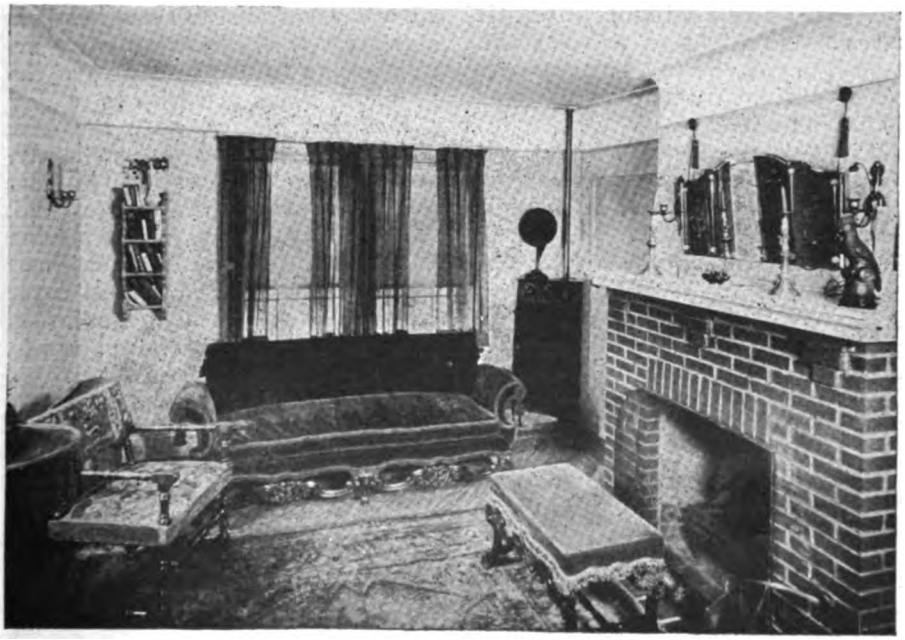
A Garage Space for Every Tenant is Provided in the Rear



TO the left is a typical first floor plan. Access is had through vestibule and sun parlor into living room. Cellar stairs open to a small hall connecting bath and two rear bedrooms with dining room. Kitchen has its own opening to outside

FRONT stairs lead to living rooms on the second floor (plan at right). Stairs to cellar are for exclusive use of individual tenants. In practically every other respects the two plans are identical. A space for refrigerator has been provided in each unit





THE living room in Mr. Harris's own quarters. The simplicity of white walls is contrasted pleasantly with a sturdy brick fireplace and mantel of wood. Note wall fixtures

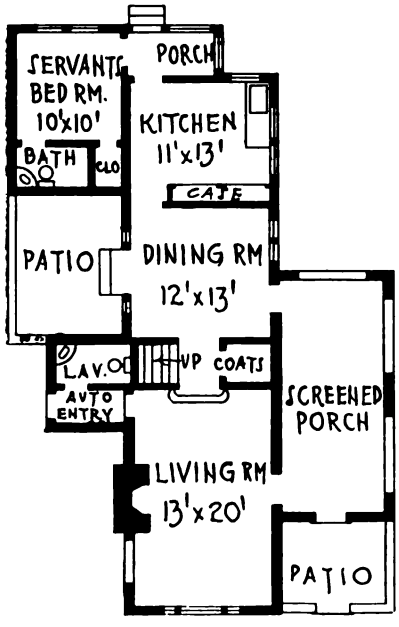
The architecture of these dwellings is an adaptation of the English; a style well fitted for duplex designs in that a balance of the facade is easily effected. In many cases, the duplex is found a front elevation representing that of a single or two-family home. Unless this effect is carried out unusually well, however, it is best avoid any attempt at masking its true identity.

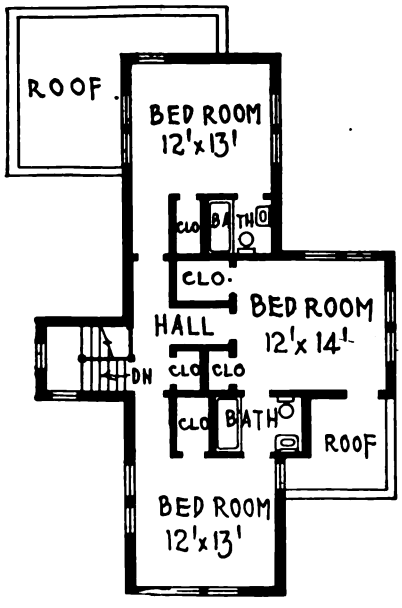
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THE BEST SELLING

A GEM of the Southland is this Best Selling Home of Miami. The design usually sells before completion. Including a two car garage, the house sold for $13,000 exclusive of ground. The exterior is rough trowelling stucco and the roof is of hand made Cuban tile. Casement windows are used throughout. The construction is of 8 inch cement blocks.







City Builders Finance Company Miami Beach, Florida

TO build homes that will sell quickly, is the desire of every builder who erects one or more homes for speculation. There are certain points in every home that make it sell. There is the influence of the neigrborhood, the design, cost, etc.—are all determining factors. It takes keen insight as to what will appeal to your buyers, but there are some cardinal points that are well to bear in mind.

First—is the loeation of lot. It must be either near transit facilities or some other natural attraction, such as sea-side, mountain, etc.—in that case it may be a long distance from transportation.

Next the exterior design must be pleasing and the construction of a type that will appeal to the class of people to whom you are going to sell, likewise the cost of the house must be within the means of these people.

A house may have a few extra features that will add a little to the cost, but not too many, otherwise it will be a bad buy in that neighborhood.

The interior arrangements should be cheerful, and nothing imparts this feeling so much as plenty of sunlight — windows aplenty will allow the sunshine to come in—it is absolutely free. In the interior arrangements follow the desires of the people to whom you wish to sell.

For the interior, have the trim stained or painted harmoniously, add neat wall decorations and let the fixtures and fittings correspond. Allow plenty of room for the placing of furniture. A bedroom without space for the head of the bed never makes a hit with the ladies, and then have decent sized closets, cupboards, etc., they always make a hit.

If one will look through the various designs published in this series, he will find some of the little things that make some of the Best Selling Homes in America.

Some More of the Certificate of Merit Winners

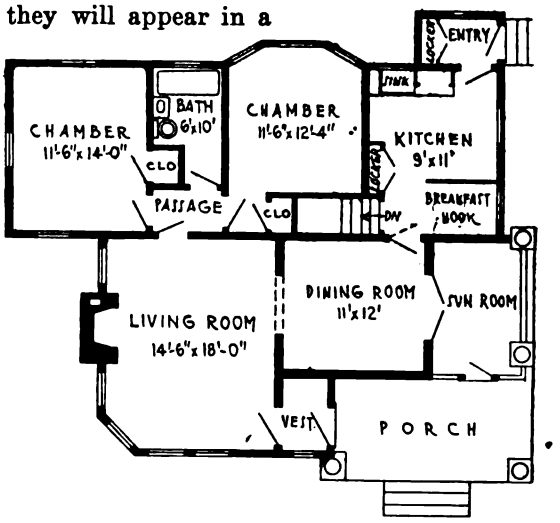
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HOMES IN AMERICA

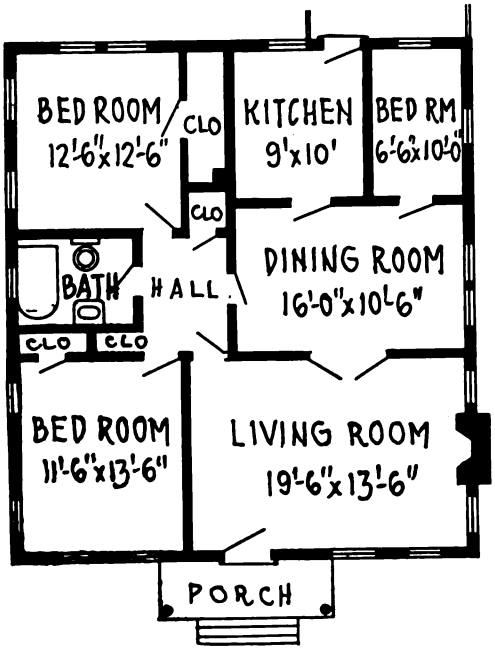
IN this issue we illustrate three more of the Certificate of Merit Winners in our campaign to find some of the Best Selling Homes In America. Each particular design has been selected according to the conditions previously published. There are seven more of these certificates of Merit Winners' designs still to be published, they will appear in a future issue.

Built by Ernest M. Folger Lynn, Massachusetts





HERE is one of the prize winners nearing completion. The stucco has not yet been applied, but despite its wintry aspect, there is every appearance of comfort within. A practical and economical plan has been used with every convenience that the neighborhood will allow. With steam heat this house sells complete for about $8,000. It is one of the most popular types of Eastern Massachusetts.



A HOMEY bungalow design that met with instant favor. A low priced home that has many conveniences. Its exterior of clapboards painted white, green shutters, red brick exposed chimney all tend to make a very pleasing color scheme for its simple lines wherein lies its beauty.

Built by Harry Clement Muskogee, Oklahoma



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Apartment-Hotel Project

The Plaza in Houston, Texas

THE Plaza, Houston's first apartment-hotel, eight stories in height, has 105 apartments, ranging from a combination one room to a suite equivalent to seven rooms. The architecture is best known as American Renaissance, and in its own right is an interesting study in good design. The exterior is faced with buff, tapestry brick, ornamental stone and terra cotta trimmings.

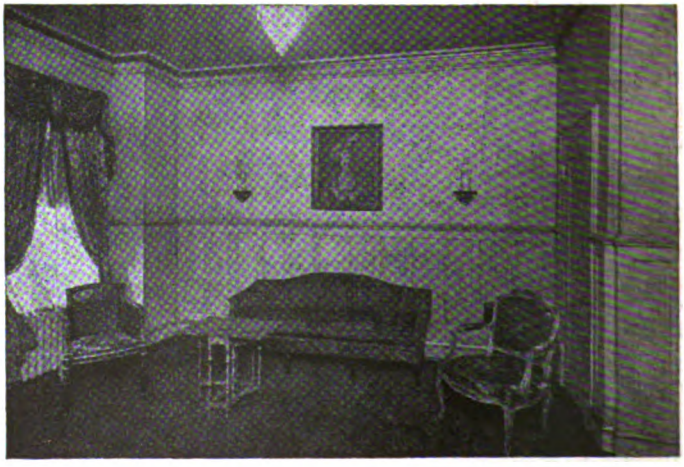
The interior of this elaborate building has turned to definite architectural periods for inspiration. The lobby of the Plaza is Italian Renaissance boasting a background of golden buff walls and darker tapestries. Just off the main lobby on the left, a ladies' parlor has been carried out in the Venetian style. Over the first floor a large public dining room follows a Portuguese period, a style of architecture only seldom used. All of the Plaza apartments whether large or small are thoroughly serviced. Conveniences include door beds, running ice water, hot water and mechanical refrigerators. Built-in kitchen units provide ample storage and work space.

A list of the specifications for ma-

One End of the Richly Decorated Main Lobby



The Ladies' Room Bespeaks Refinement and Luxury



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A TYPICAL room in one of the larger Plaza apartments: A simple background for furniture has been provided, so that the tenant may work out the final decorations according to his individual tastes

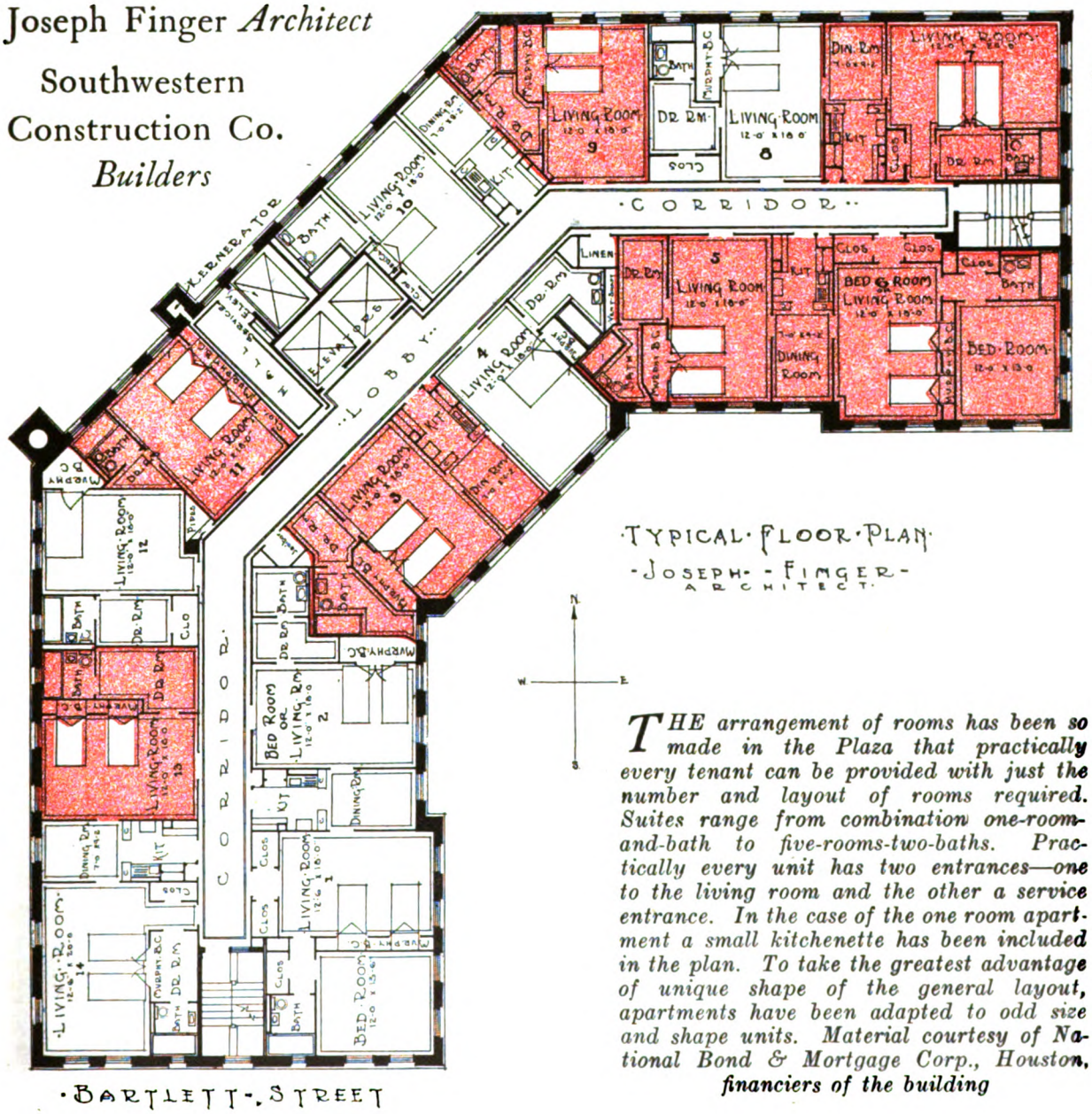


terials and equipment includes:

Terrazzo floor in lobby; cement floor, carpet covered, in corridors; Corbin Hardware; Simplex Oil Burner; Youngstown Tube Company's Steam piping; Warren & Webster radiator traps and valves; Kernerator garbage and waste furnace; American Marsh house pumps; General Electric generators and motors; Wilkes hot water heater and tanks; Furniture by Albert Pick Co.; Murphy In-A-Dor Beds; Domestic Science kitchen units.

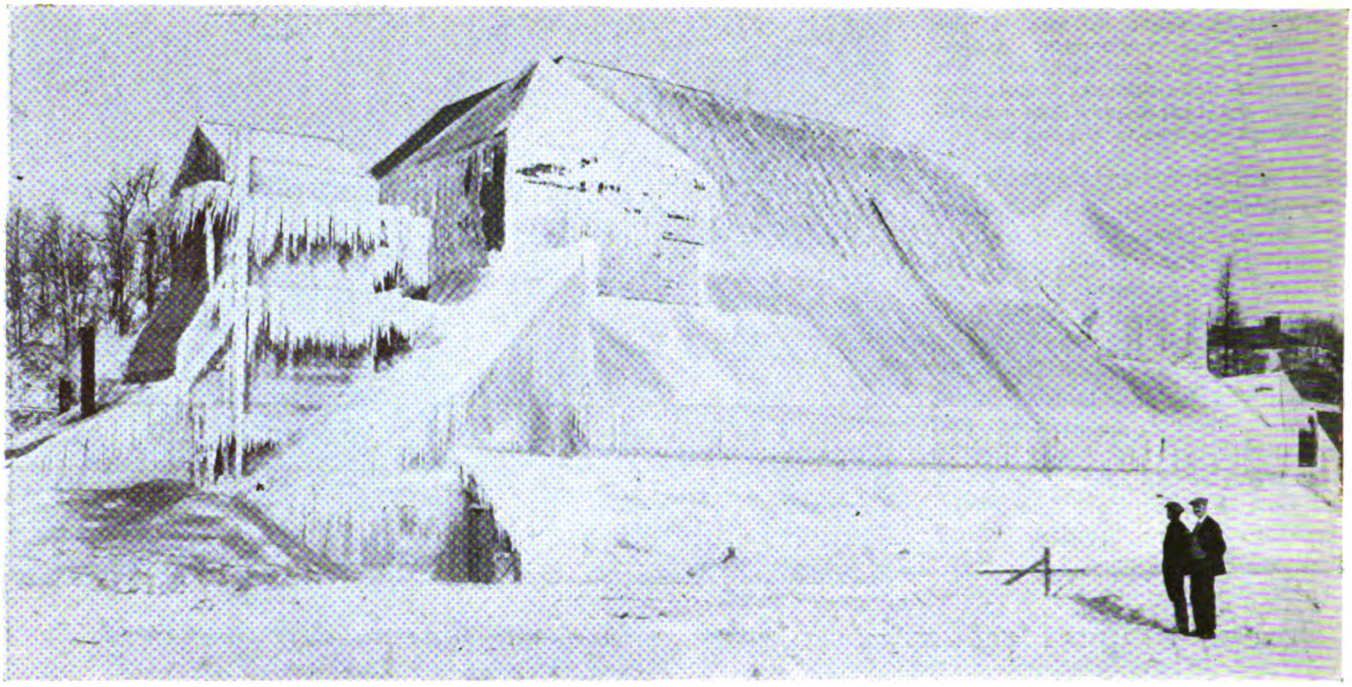
Joseph Finger *Architect*

Southwestern Construction Co. *Builders*



THE arrangement of rooms has been so made in the Plaza that practically every tenant can be provided with just the number and layout of rooms required. Suites range from combination one-room-and-bath to five-rooms-two-baths. Practically every unit has two entrances—one to the living room and the other a service entrance. In the case of the one room apartment a small kitchenette has been included in the plan. To take the greatest advantage of unique shape of the general layout, apartments have been adapted to odd size and shape units. Material courtesy of National Bond & Mortgage Corp., Houston, financiers of the building

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Mastering Winter Difficulties

In the Erection of Table Rock House

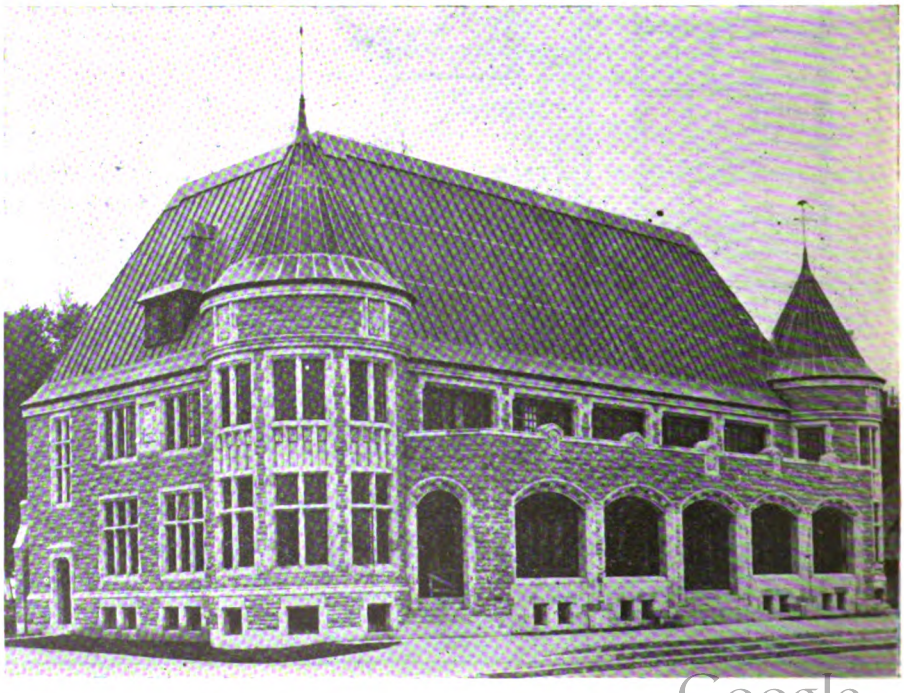
Niagara Falls, Ontario, Canada

Findlay & Foulis
Architects
Pigott-Healy Constr.
Company, *Builders*

CONTRACTORS for the erection of the Table Rock House, Niagara Falls, Ontario, proved beyond a peradventure of a doubt that winter conditions can be met and construction work may go ahead even under the most rigorous climatic conditions. Work on the Table Rock house was started in October and operations were carried through the winter on schedule time.

Owing to the location immediately over the Falls, the builders were faced with a difficult problem—spray from the Falls—falling in such quantities as to make work practically impossible. Such a condition is conceivably difficult during suitable weather but the real problem, that of carrying on the construction during winter months when this spray was turned to ice, was a formidable one indeed.

Contractors met these adversities by erecting a shell over the whole structure. The interior of the shell was heated by a blower system, operated by a motor, through heating coils. Thus a temperature was maintained at approximately 60 degrees at all times. Men worked during even the coldest weather and the blower system prevented ice from accumulating too heavily and burying the whole structure. One illustration shows the shell completely covered with a layer of ice



CONSTRUCTION of Table Rock House was started in October in the face of impending winter conditions. A shell was first constructed over the entire structure (shown above). Right: completed structure.

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built up by flying spray. With this coating of ice over the entire wooden shelter a certain amount of protection from the elements was gained and it was not difficult to keep the inside temperature at a suitable working level.

Another important problem, owing to the nature of the rock formation, was the sinking of the elevator shaft and tunnel work preceding actual construction of the building. The borer in each case was driven from opposite ends and met in the center. It is evident that in addition to guarding flying spray during building operations, it was necessary to make the building itself impervious. All walls were carefully waterproofed and metal windows sealed in the stone work. It was also essential that the main and veranda roofs be particularly reinforced to withstand the accumulation of ice occurring each year during the winter months. The veranda roof slabs were designed to carry a heavy load of ice together with the impact of falling pieces from the steep pitched roofs. All flat roofs are provided with duck boards for winter. These are easily handled and stored when not required.

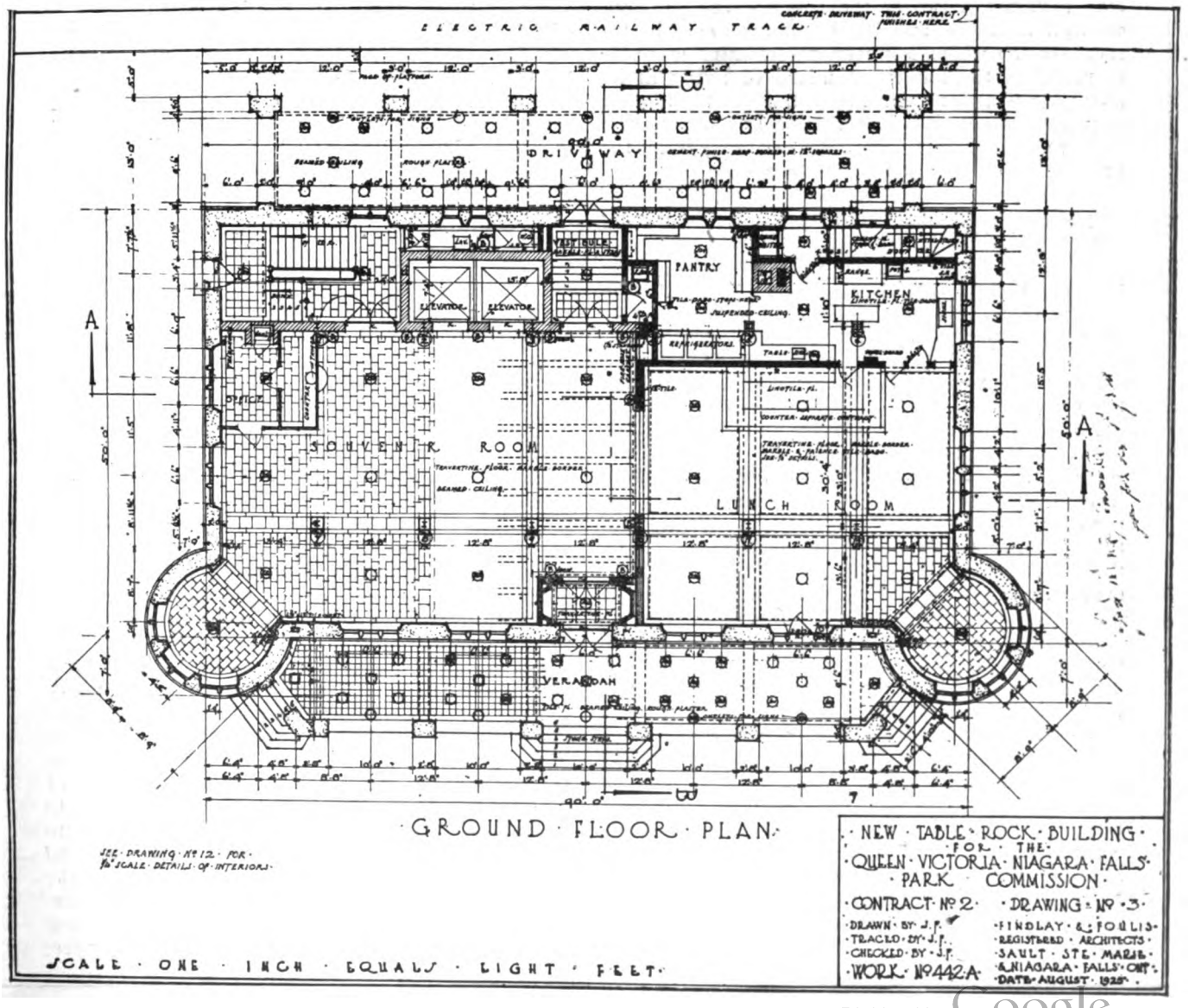
OVER sloping roofs copper is laid on heavy wood planking and the entire roof space heated with radiators and coils sufficient to prevent any great formations of ice. Rain water conductors from the flat roofs are heated and protected with insulated pipe covering. All windows are of the casement type and are built of solid bronze to resist spray conditions.

The structure is built entirely of Queenston Blue Dolomite. Workmanship is particularly fine, with intricate carvings throughout. Access to the building is had from both front and rear through stone arcaded porches.

One enters directly into a large Souvenir room, the walls of which are finished in Caen stone and the ceilings heavily beamed in wood. A staircase leads from the Souvenir room directly to the basement where large, well appointed dressing rooms are allocated. These are finished in white enameled brick.

On the first floor—that is above the ground floor—a generously proportioned hall with marble trim and decorative plaster panels leads to the Observation Gallery. The Gallery extends the full width of the building and provides an excellent view of the Falls and upper rapids. Special sliding sash to guard against spray or inclement weather are provided. The balance of the upper floor is given over to the Manager's apartment, storage and care-taker's apartment.

This new building is the result of a competition inaugurated by the Queen Victoria Park Commission early last year and open to all architects. 36 designs were submitted and that of Findlay and Foulis of Sault Ste. Marie was selected as the most suitable.



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Herbert Hoover, *Secretary of Commerce*, Says

Construction Activity Means Industrial Prosperity

THE fiscal year 1925-26 has been one never surpassed in our history in the volume of production and consumption, in the physical quantity of exports and imports, and in the rate of wages. There has been practically no unemployment. Further progress has been made in the efficiency of management and labor and in scientific research and invention. As in the preceding year, there were a few points where conditions were less satisfactory, as in the New England textile industry, two or three sections of the agricultural industry, and the bituminous coal industry. On the whole, however, the country was able to maintain the highest standard of living in its history, a standard far above that in most other countries of the world at this or any other time. This represents a remarkable recovery from the great losses incurred by the Nation in the War.

Construction volume during the past fiscal year surpassed the former high record made during the preceding 12 months. The number of square feet of floor space and the value involved in the new contracts let were each close to one-fourth greater than the year before. The actual volume of construction work carried out increased by smaller proportions, showing that the industry had a larger volume of unfinished work on hand than the year before.

Notwithstanding this immense building program, building costs remained relatively stable. Both the construction industry and the owners of buildings have cooperated in the movement, to which the efforts of this department have materially contributed, for keeping building activity more even throughout the year. This movement has reduced operating expenses and afforded more stable employment to building-trades workers.

Construction activity was well distributed throughout the different regions of the country. The leading class of building construction continues to be residential.

We are not merely keeping pace with the needs of expanding population but meeting the demand for better housing which comes with the general advance in living standards. The past fiscal year, however, witnessed a very considerable increase in contracts for new industrial and business buildings and for public works and utilities. There was little to suggest extravagant additions to industrial plants, which characterized the boom of 1920; the new buildings representing rather a steady growth of production and trade and the meeting of needs for more efficient, comfortable, and attractive factories, stores, and office buildings.

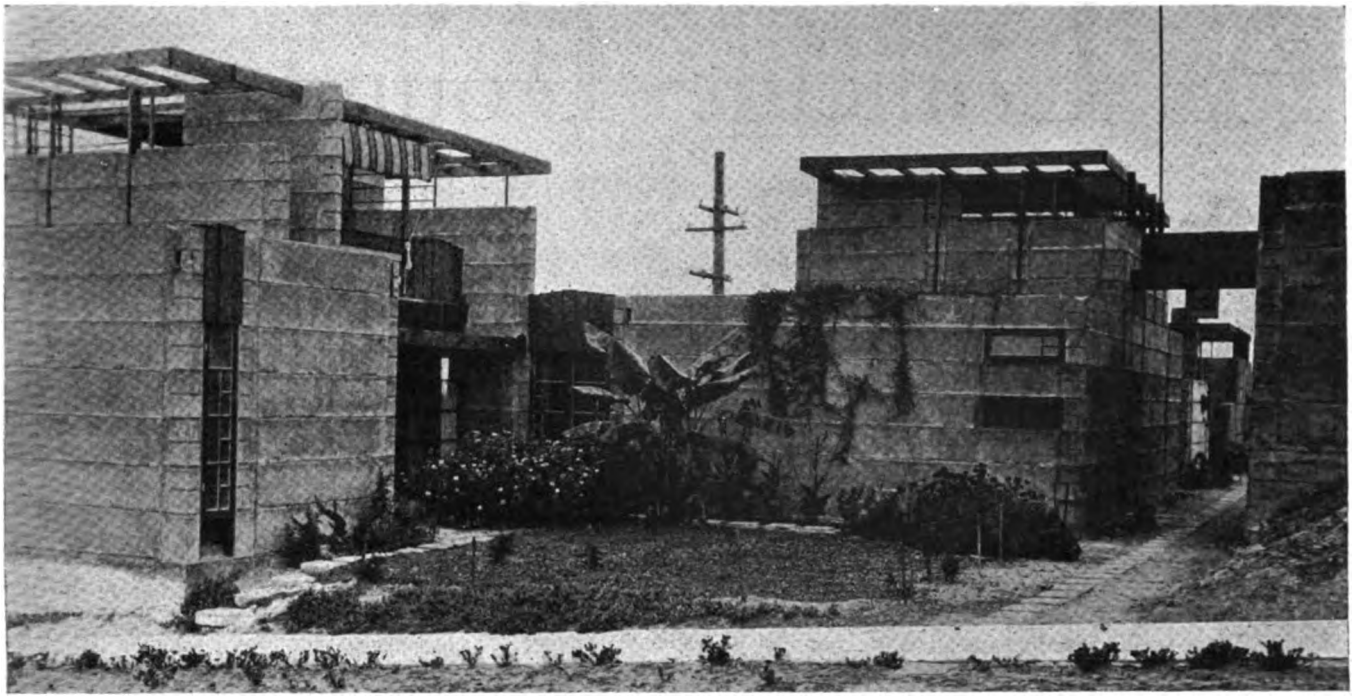
The heavy and increasing expenditures for construction during the past five years have been an essential factor in maintaining and augmenting the activity of many of our most important industries, including not only production of building materials but also various other types of manufacturing, metal mining, and railway transportation. There is indeed a close and mutual interaction between construction and other industries. The prosperity of the latter makes possible the savings which go into construction, while construction activity helps keep other branches of industry prosperous.

An increasing proportion of the housing construction during the last two or three years has been of the less expensive types needed to relieve the shortage which arose during the war, and to supply the demands of workers whose advancing earnings enable them to afford better quarters than ever before. Improvement in the methods of financing dwellings is still needed, especially for families of the lower income groups.

The general movement throughout the country for elimination of waste in production and distribution has made steady progress. The Department of Commerce, in continuation of its work of the past five years, has devoted much of its activities to this end.

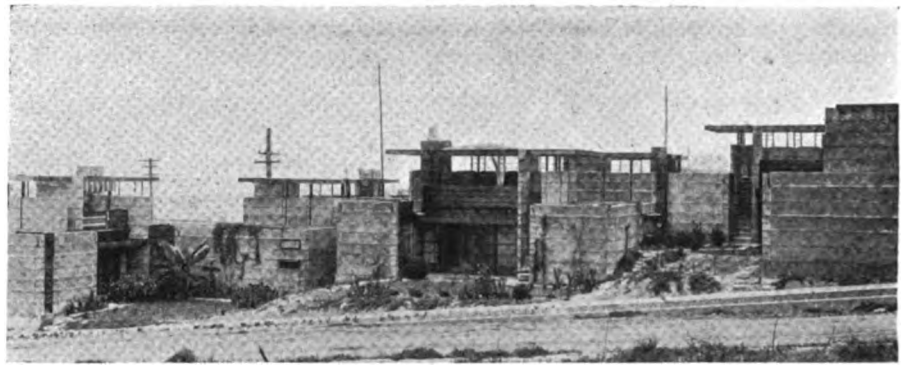
While various divisions of the department have been actively aiding in the campaign in many specific directions, it must be borne in mind that the whole program is one fundamentally to stimulate action among industries, trades, and consumers themselves. It is obviously not the function of government to manage business, but for it to recruit and distribute economic information; to investigate economic and scientific problems; to point out the remedy for economic failure or the road to progress; to inspire and assist in cooperative action in reduction of waste—surely all these are well within the proper field of public service.

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America's Own Architecture

By Edwin Pendexer



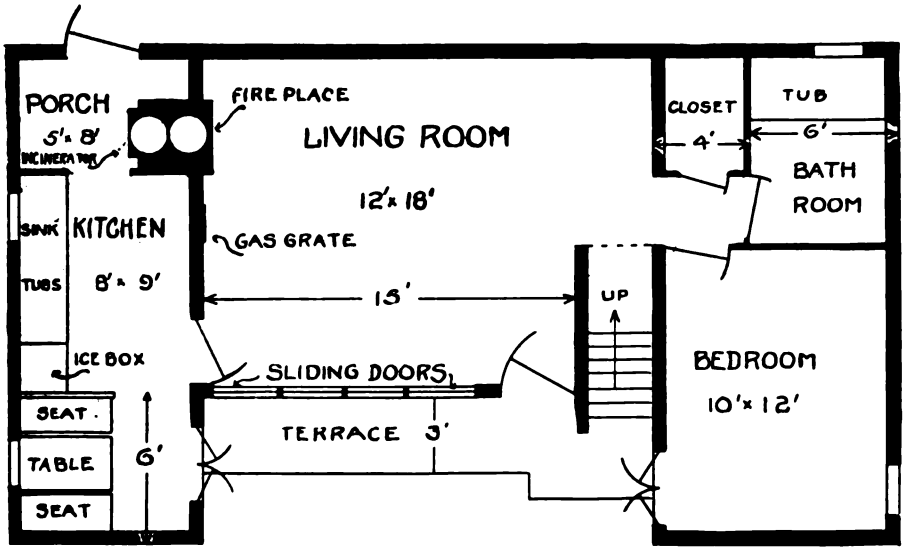
TO achieve "originality" in architecture it would seem that an architect must, if he succeeds therein, experience at the same time great trouble in faithfully observing the fundamentals of his art. Yet architect R. M. Schindler of Hollywood, assisted by W. Llewellyn Lloyd, owner, accomplished just this thing.

A few steps from the Pacific Ocean in the southern California town of La Jolla (pronounced La Hoi-yah) these two men erected "something different". To attempt to put an architectural handle to the result of their labors would be difficult. Perhaps they anticipated a future effort to do so by some smart alec, and in order to set him on the right track to start with, the owner hung out a sign: *El Pueblo Ribera.* In our mother tongue this means: A group of Houses by the Sea.

"And that's all they are to it!"

The construction material used in this arresting unit of bungalows is concrete. It was laid in courses by the use of specially designed forms which were collapsed and moved up tier by tier as the material dried and hardened. The mixture was water-proofed and tinted an adobe brown, which resulted in a pleasing color, and freedom from moisture. The exterior roughness was left "as is." Southern California vegetation grows rapidly and the austere seriousness of the blank walls will soon be softened by clinging vines.

Varying foundation elevations, and stepping-stone paths give interest to the severe exteriors. The gradual increase in altitude of the pergola covered sun-roofs somewhat suggests the Indian cliff-dwellers' habitations as seen from the train.



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A Difficult Foundation

By Frank W. Skinner, C. E.

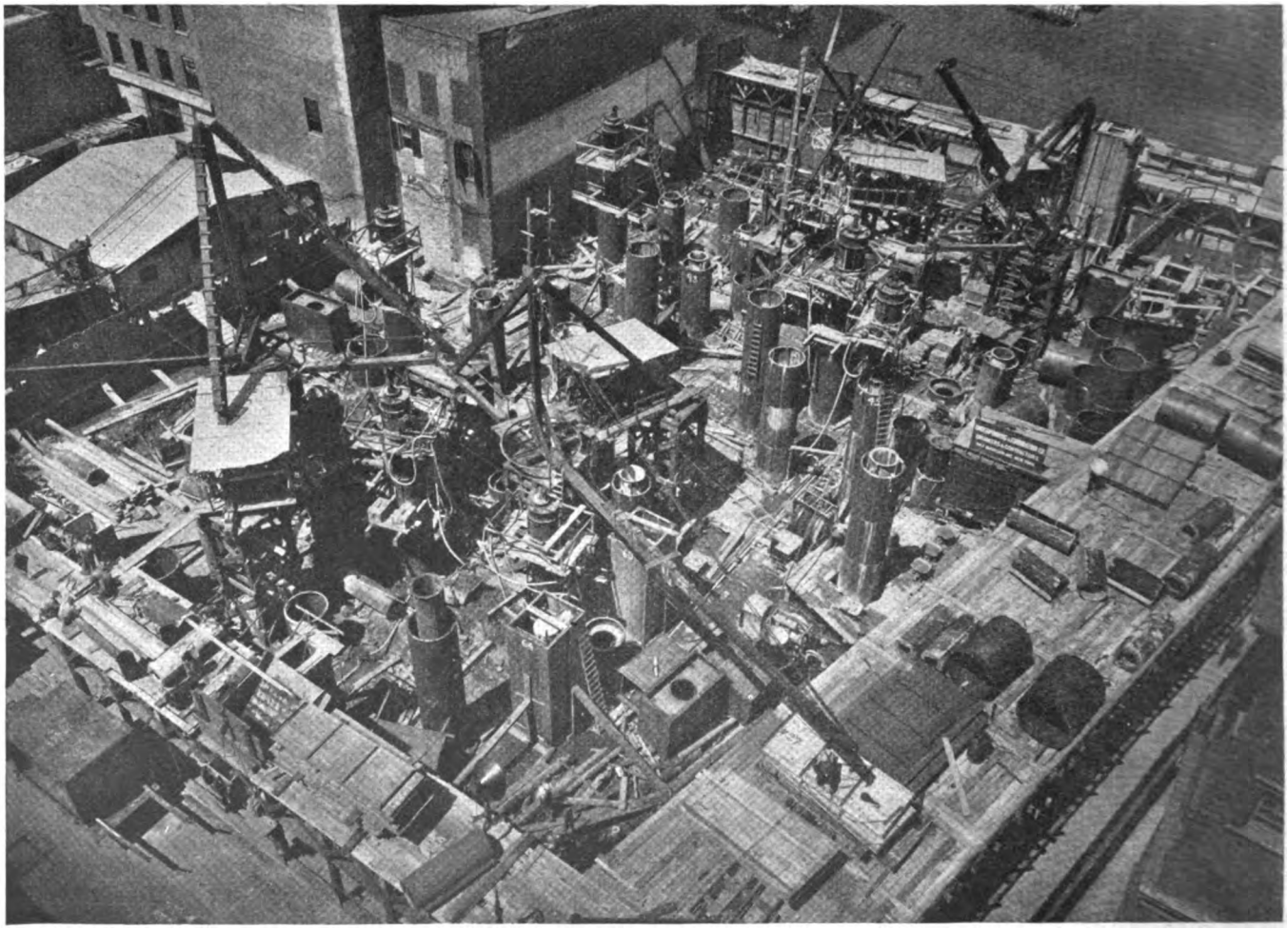
BUILDING a 16-story building on soft, wet ground involves many foundation difficulties. When such a building must withstand the vibrations of batteries of heavy printing presses, these difficulties are multiplied many times. The engineers for the New York Evening Post Building solved the problem by forming 86 separate small foundation piers of 31 different sizes. Several were designed to carry concentrated columns loads; the remainder to carry heavy loads and vibrations from machinery and stock without further transmission to other portions of the structure.

The site, fronting on West Street, Carlisle Street and Washington Street, New York, was located on "made" ground covering the remains of old bulkhead piers and foundations that were built when the area was entirely submerged by the North River. These structures, buried in miscellaneous fill were underlaid by a thick stratum of sand and boulders resting on a bed of hardpan approximately 50 feet below the curb and 9 feet or more above bed rock.

The requirements of the architect, Horace Trumbauer and the consulting engineer, Charles Scott Landers, governed the location and minimum dimensions of 45 circular piers from 5½′ to 8′ in diameter and 41 rectangular piers from 5′ to 16½′ square. They specified that they should be carried down to a stratum having a bearing capacity of 10 tons per square feet. Exploration indicated that this might be attained in the hardpan stratum which it was required to penetrate to a minimum depth of one foot.

The character of soil, the abundance of ground water seeping in from the adjacent North River and the certainty of encountering numerous buried obstacles together with the required quality and verification of the bearings and other considerations induced the contractor to adopt the pneumatic caisson method of construction. The importance of the most rapid execution of the work justified him in the installation of an exceptionally abundant construction equipment, electric power and the adoption of pneumatic caissons and cofferdams entirely fabricated and completed at the yards of the Federal Shipbuilding Company and delivered whole and ready for immediate use on the job.

THIS meant important saving of time that would have been required for their fabrication at the site and for construction and seasoning of the reinforced concrete caissons, generally used for similar work in this locality.



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EVENING POST BUILDING

New York City

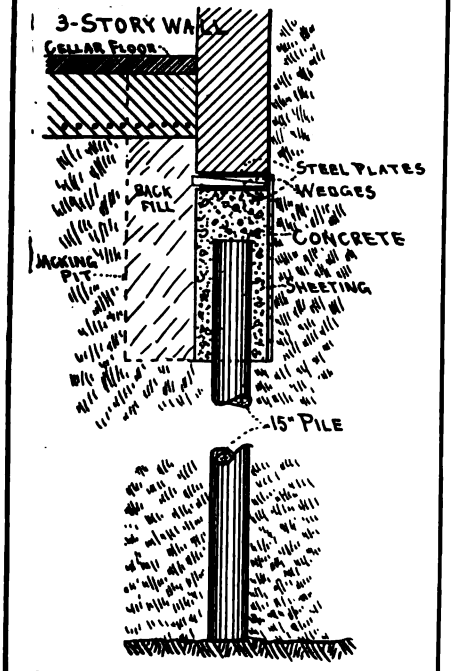
Horace Trumbauer
Architect

Thompson-Starrett Co.
General Contractors

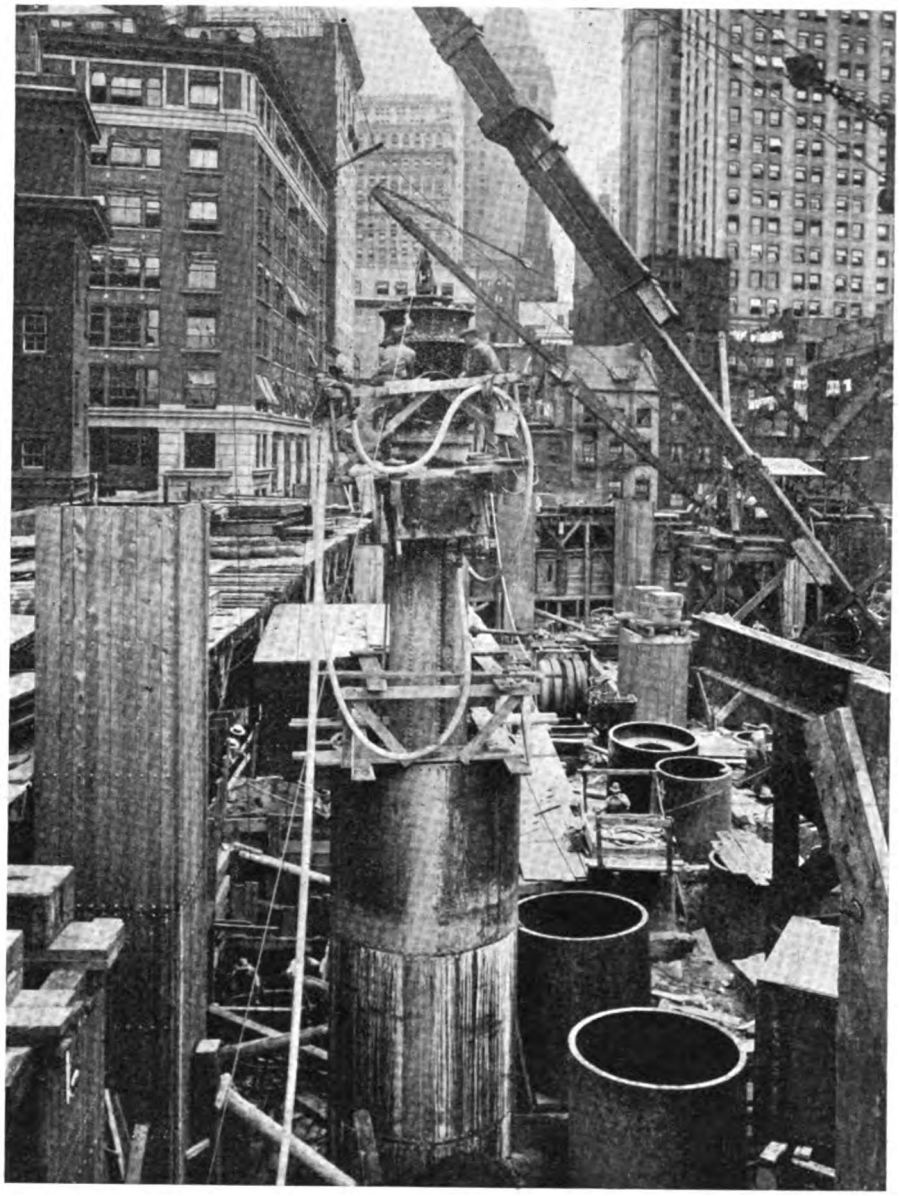
Underpinning & Foundation Co.
Substructure Contractors

Caissons themselves, of a uniform height of about 8′ with their walls extending 16″ above the roof of the working chamber, are made entirely of steel plates and angles riveted and calked as for a ship's hull.

Caisson walls are extended up to the bottom of the general excavation by cofferdams, made in sections 14′ and 16′ long, assembled together with bolts through inside flange angles. The sections of the rectangular cofferdams are made with vertical tongue and groove planks, the cylindrical ones are made with ¼″ steel plates.



IN underpinning the brick wall steel-concrete piles were driven to a bearing before caissons were sunk. Working pits were sheeted down 7′ below wall footings. Then three sections of heavy steel pipe were jacked down.



Lock of small circular caisson open for discharge of muck bucket

Operations were commenced last April. A Thew steam shovel excavated about 2,500 yards of material from 176′ by 133′ pit about 9′ deep and delivered the spoil to a fleet of 5-ton motor trucks that hauled it a mile to the city dump.

STEEL caissons weighing up to about 10 tons each were delivered on trucks and deposited in pits dug to receive them by the 50′ and 60′ booms of stiff leg derricks mounted on rectangular wooden towers about 20′ high and commanding the entire area of the lot and the adjacent streets for loading and unloading trucks.

Some of the caissons were sunk without air pressure to a depth of as much as 20′ and when the ground water made it necessary the air shafts and air locks were added and the caissons were put under pressure. Sinking was continued by three 8-hour shifts of sandhogs working with pick and shovel, pneumatic spades and chisels in jack hammer drills. With these they cut through the mass of timbers, sometimes 20 inches square, that were found perfectly preserved in the foundations encountered.

Fully 50 per cent of the caissons encountered heavy crib work and riprap stone 12′ or more below the surface, through which they penetrated slowly, sometimes requiring a week to pass through a single crib. When no obstructions were encountered the caisson might be sunk to bearing in the hardpan in seven 8-hour shifts. The excavated material was hoisted out of the caisson in small cylindrical buckets operated by hoisting ropes running through stuffing boxes in the top of

(*Please turn to page* 146)

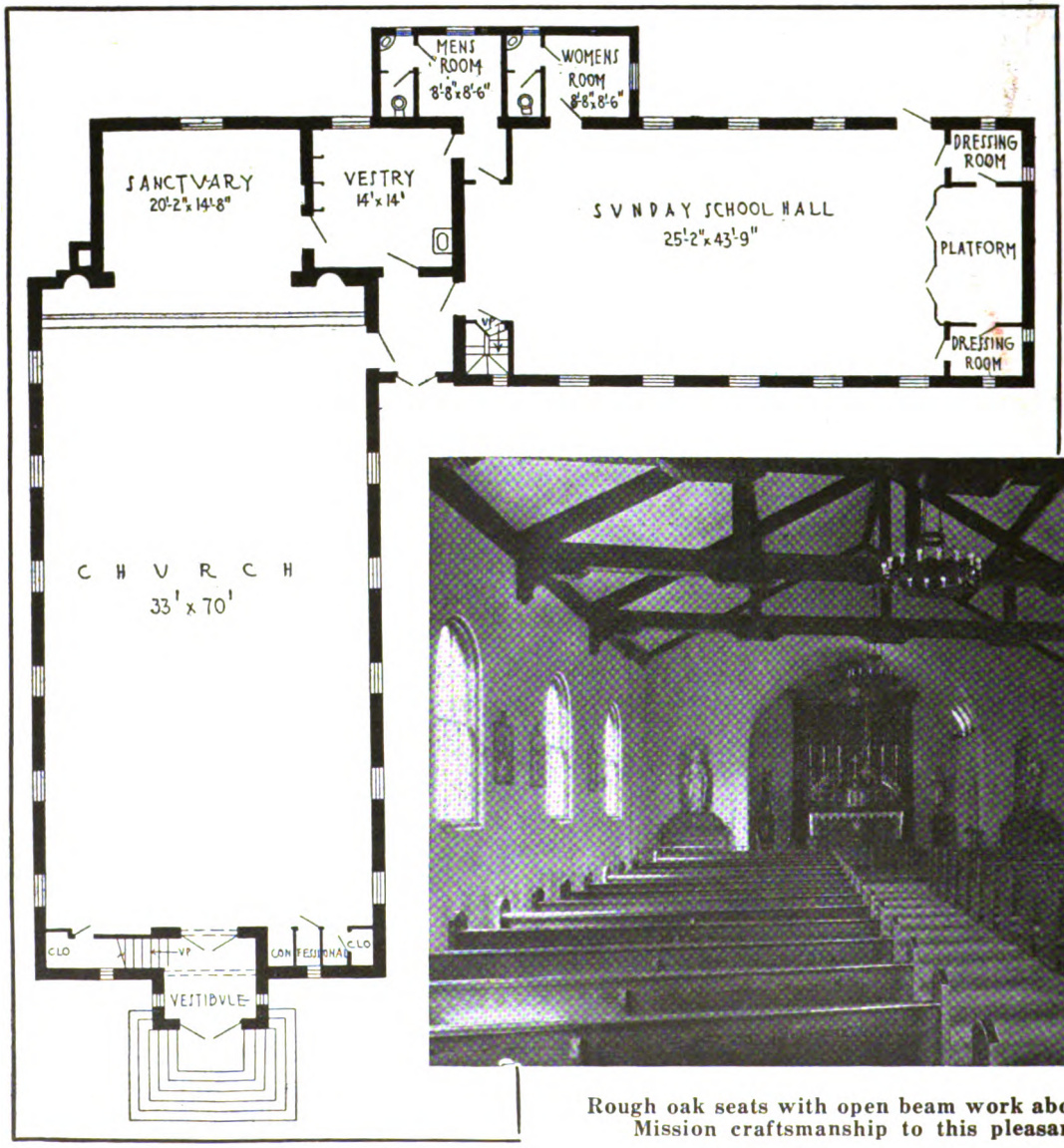
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A Mission Chapel

Saint Joan of Arc at Tuxedo, N. Y.

Robert J. Reiley, *Architect* Fitz Randolph, *Builder*, Plainfield, N. J.



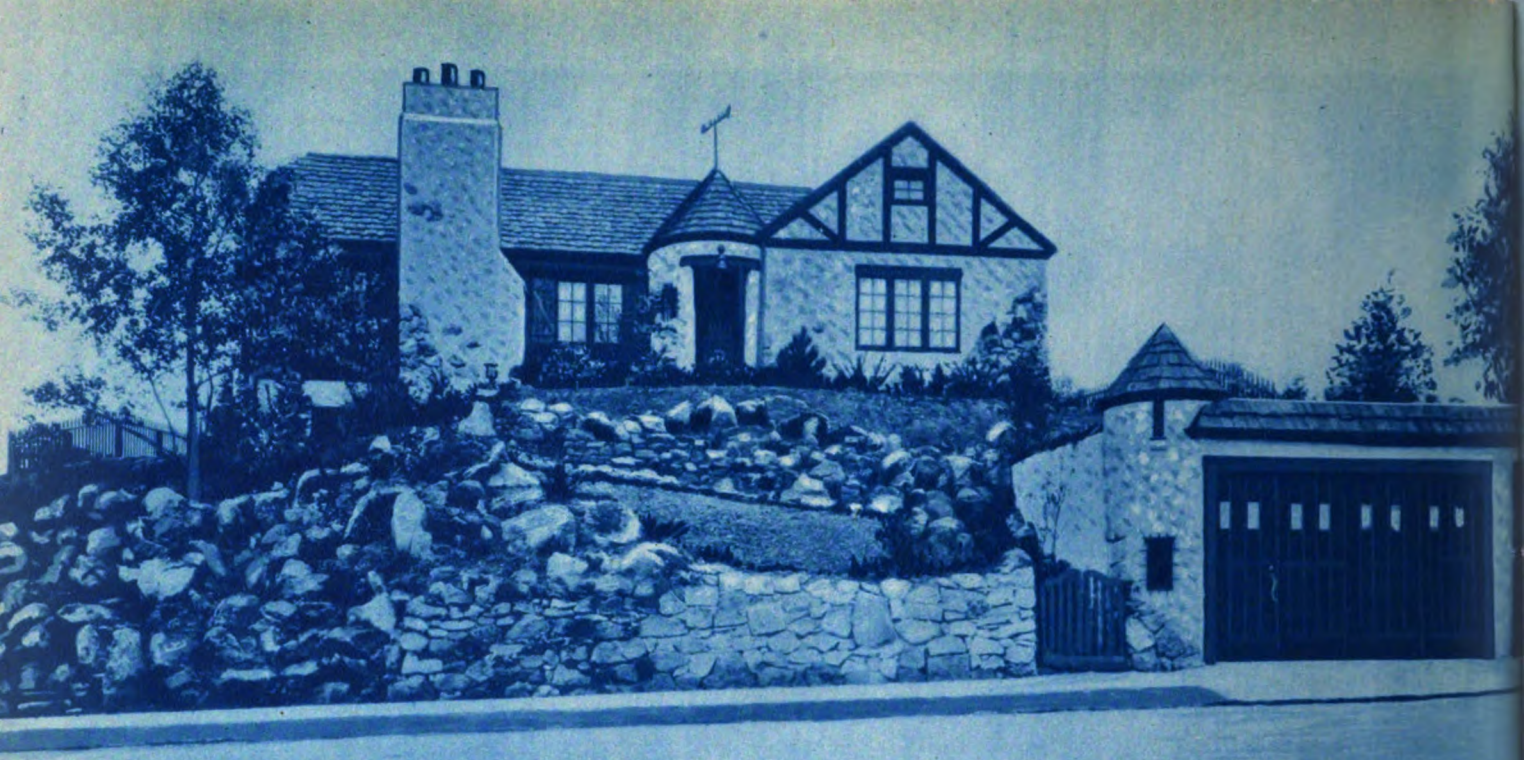
THIS church building is of terra cotta block stuccoed with a rough, hand marked texture. This is cream colored and contrasts pleasantly with a Spanish tiled roof. The interior shows exposed wood trusses and walls of cream colored cement. Cost to build main unit and ell was $40,000.



Rough oak seats with open beam work above add a note of early Mission craftsmanship to this pleasant church interior

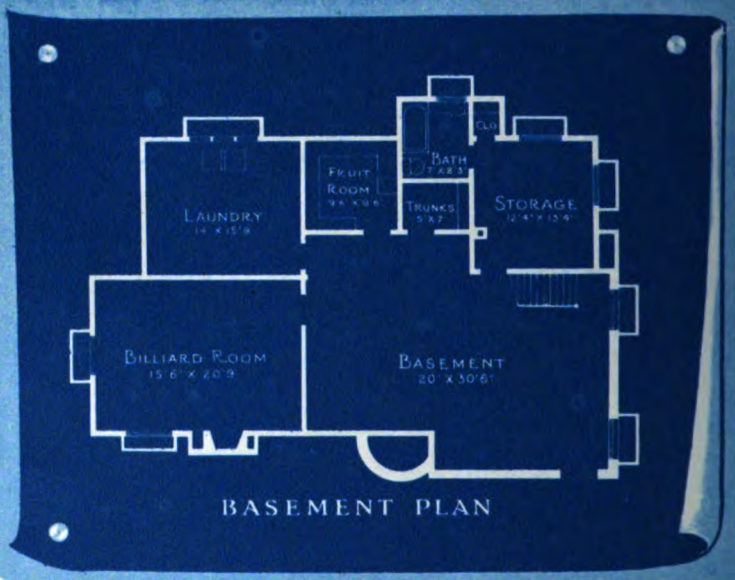
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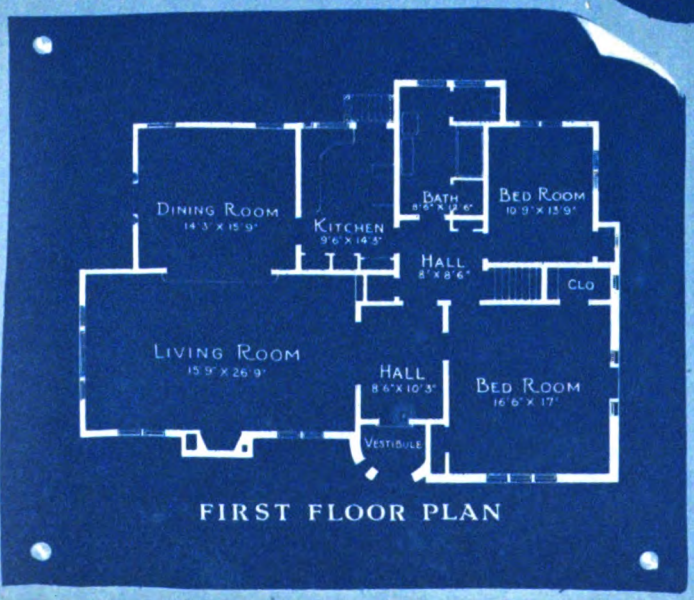


Crowning A Hill Top

LIKE the beacon that welcomed a conqueror's galleys to Piraeus, this model cottage crowns a rocky ledge that dominates the bustling city of Portland, Oregon. Built of stone, stucco and hand-dressed native pine, with a four toned roof of hand split cedar shakes, it is expressive, in its architecture, of that hardy, pioneer spirit which even today marks the West as a section apart. The turreted, street-fronted garage, which is connected with the cottage by a subterranean passageway at the basement level, contrasts sharply with the old-fashioned rock garden and its spring fed lily pool that grace the path of rough dressed boulders winding around to the crest of the hill. The home is known as Pondosa Cottage, designed by Lucius & Cash, Architects, and built by Matot Construction Co., Portland, Ore. Western Pine Manufacturers' Association sponsored the cottage and will use it for a testing laboratory.

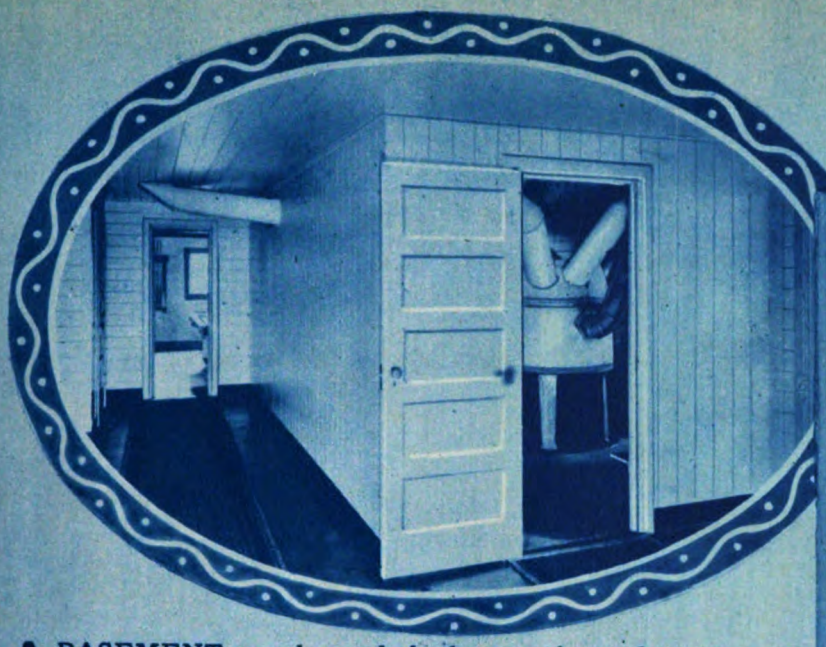


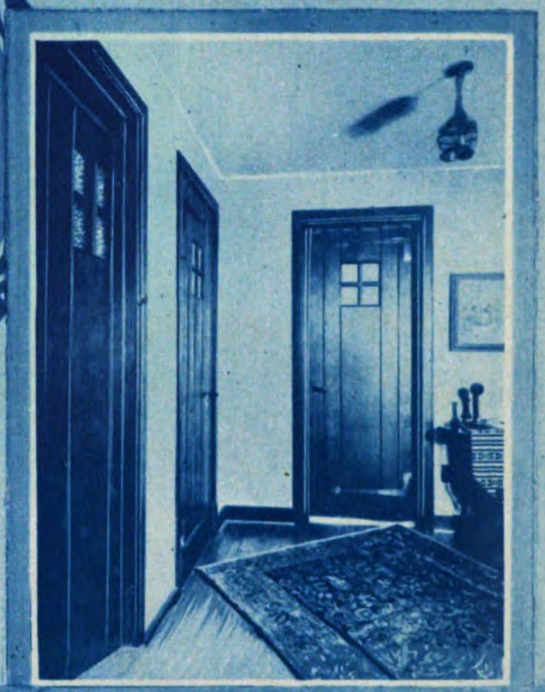
BASEMENT PLAN



FIRST FLOOR PLAN

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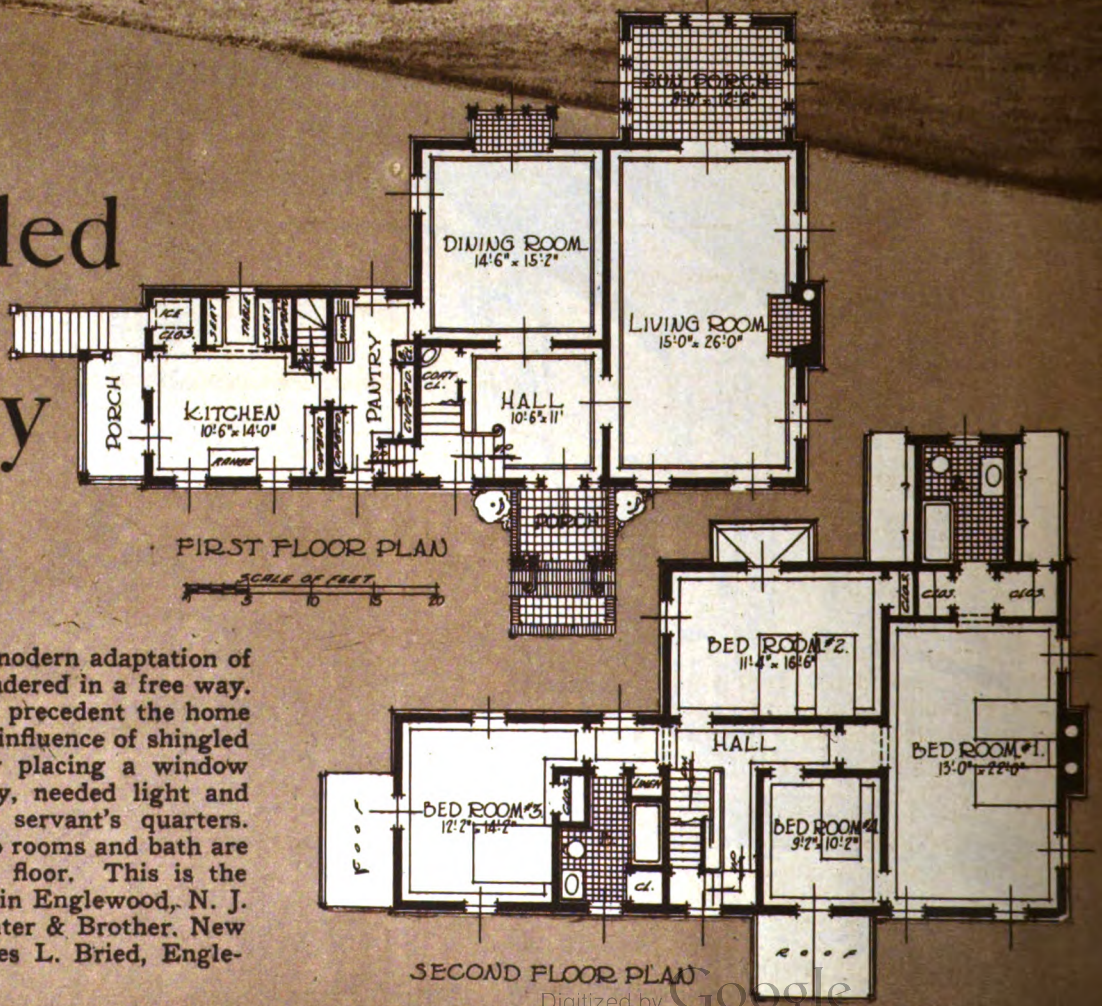
A BASEMENT may be made both attractive and useful. Above shows how painted partition and full boarded ceiling have been used in the basement of Pondosa Cottage. Upper right shows how doors of heavy planking, fitted with wrought iron hardware add to interior scheme. Living room (below) features hand-hewn larch beams, with pegged construction.



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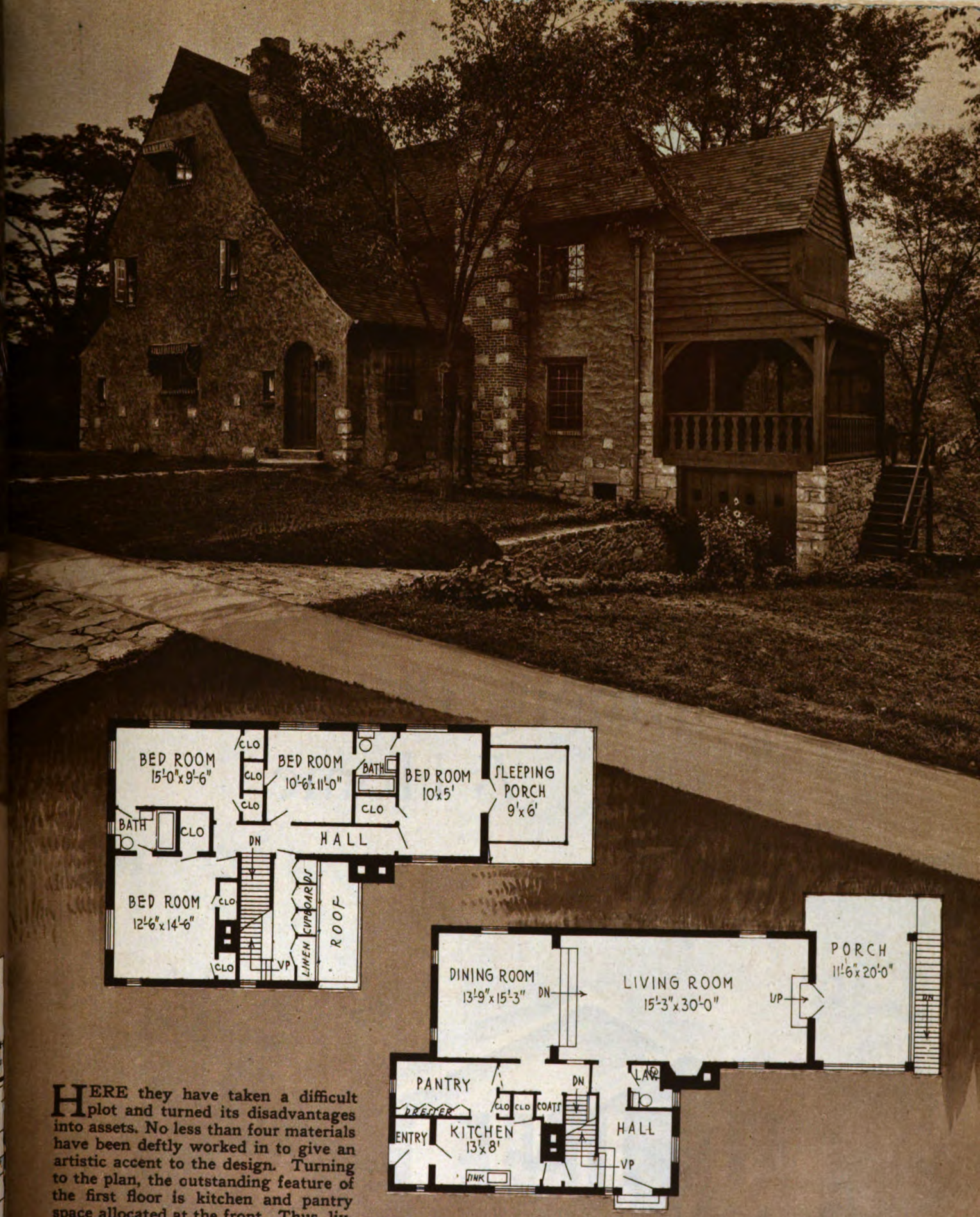
Shingled Beauty





THIS home is a modern adaptation of the Colonial, rendered in a free way. In harmony with its precedent the home enjoys the softening influence of shingled walls and roof. By placing a window through the chimney, needed light and ventilation is given servant's quarters. These embracing two rooms and bath are located on the third floor. This is the W. J. Devine Home in Englewood, N. J. Architect: R. C. Hunter & Brother, New York. Builder: James L. Bried, Englewood, N. J.

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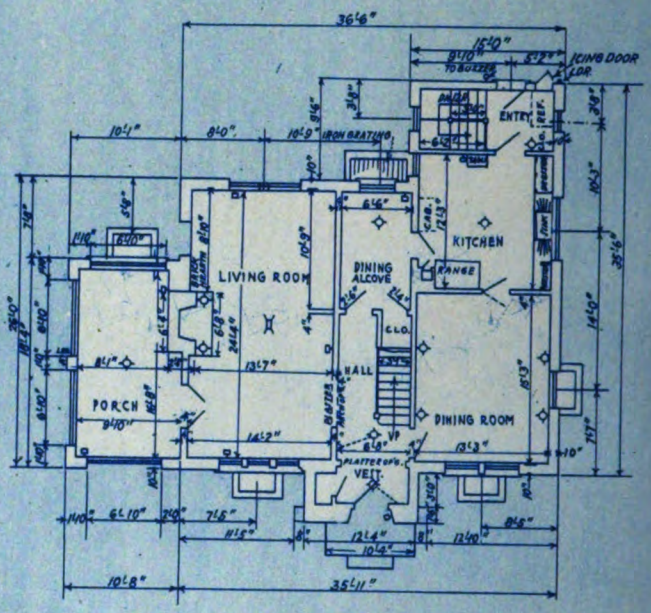


HERE they have taken a difficult plot and turned its disadvantages into assets. No less than four materials have been deftly worked in to give an artistic accent to the design. Turning to the plan, the outstanding feature of the first floor is kitchen and pantry space allocated at the front. Thus, living and dining rooms command a more desirable view. D. P. Morse of Bronxville, N. Y. is the owner; Howard & Frenaye of New York, Architects; Harry Woodward & Son, Mt. Vernon, N. Y. builders. Photo by Hewitt Studios.

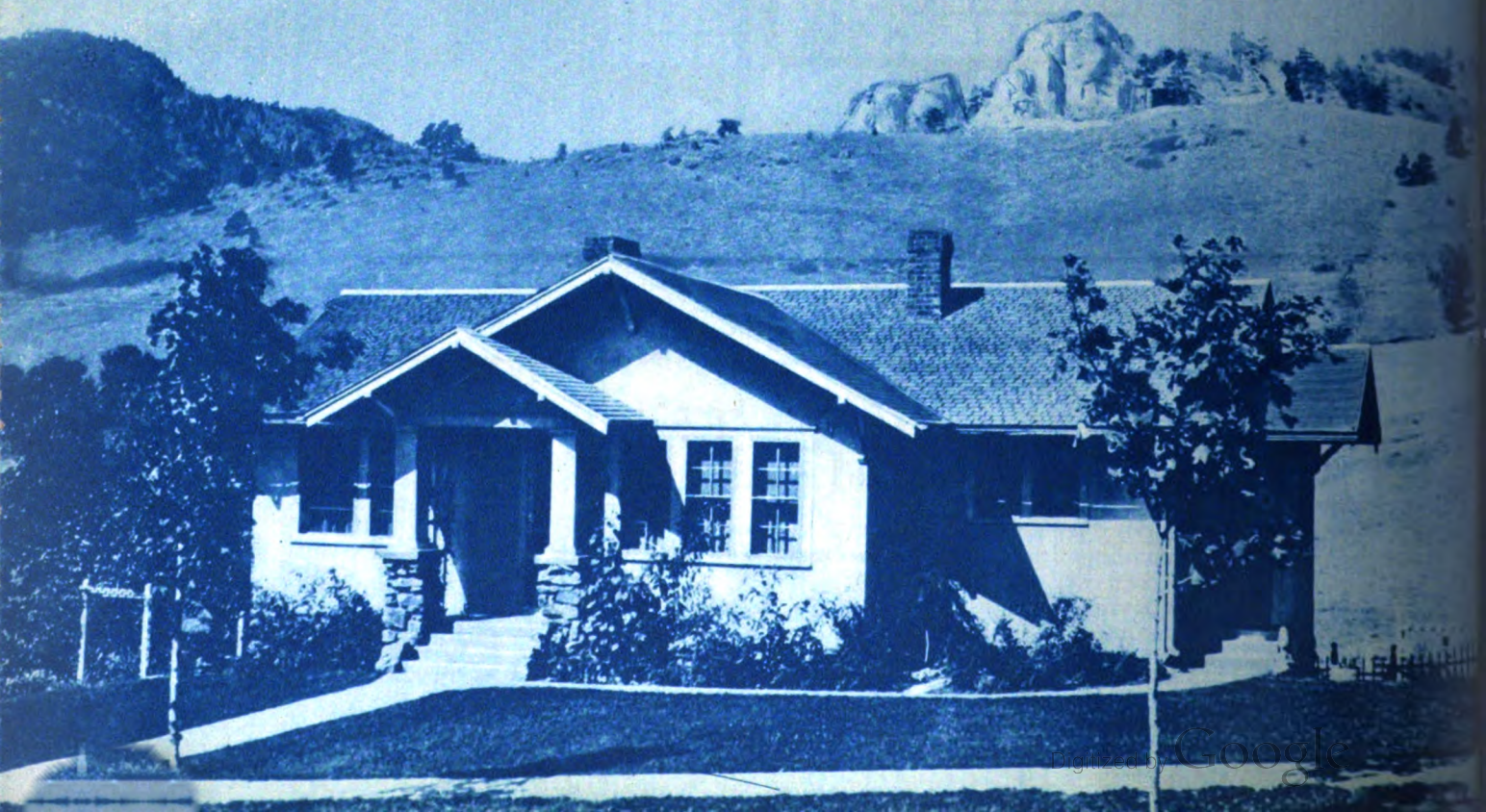
Reminiscent *of* Normandy

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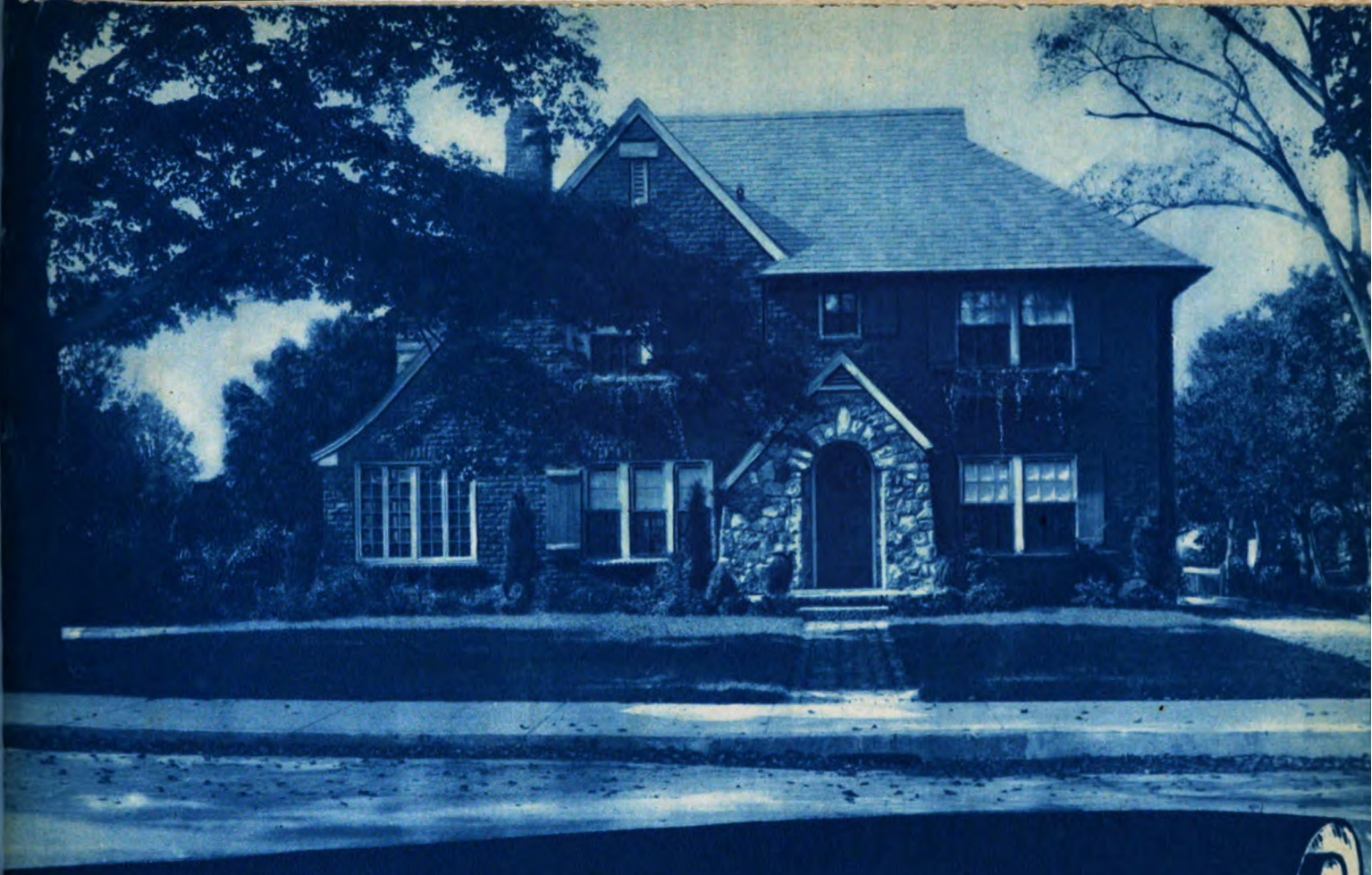
THE awe inspiring beauty of rolling hills and distant mountains calls for a type of home that will not look out of place in a rugged setting. The Western Bungalow type, running to horizontal lines, is in concinnity with the severity of such a background. Here is an excellent example of work done by a Colorado architect, familiar with the advantages and disadvantages of the surroundings. The design is compact and yet gives a feeling of spacious quarters. For ground area four rooms and sleeping porch of quite ample size have been provided. The W. H. Powlass residence is by Edwin Lundborg, of Boulder, Colo.



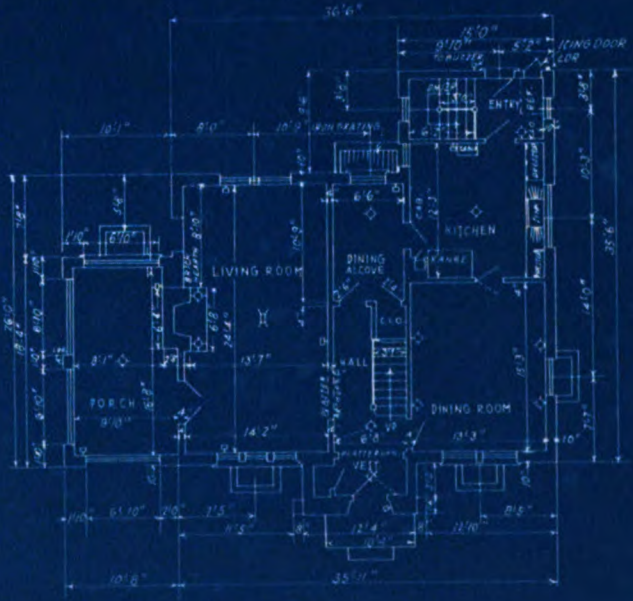
Among the Boulders *Is* Home

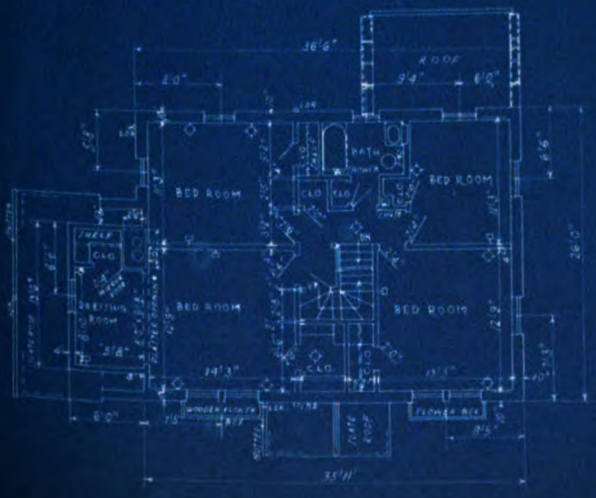


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Materials Used Uniquely



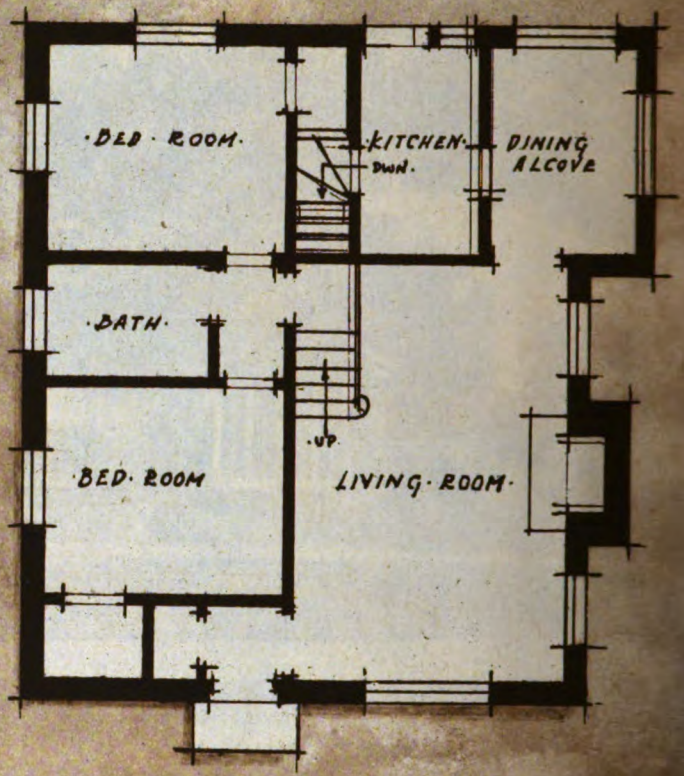


ON one of the main highways of Norwalk, Connecticut, stands this home of beauty. The walls consist of Duntile faced with two inch brick veneer of swelled brick laid at random. No particular bond being followed, nor attention paid to keeping them in line. Even the joints vary from a half inch to one inch. This unusual treatment makes a most artistic house that compels attention. The roof is of varigated slate both as to color and size. Designed and Built by J. Lyons, Norwalk, Connecticut.

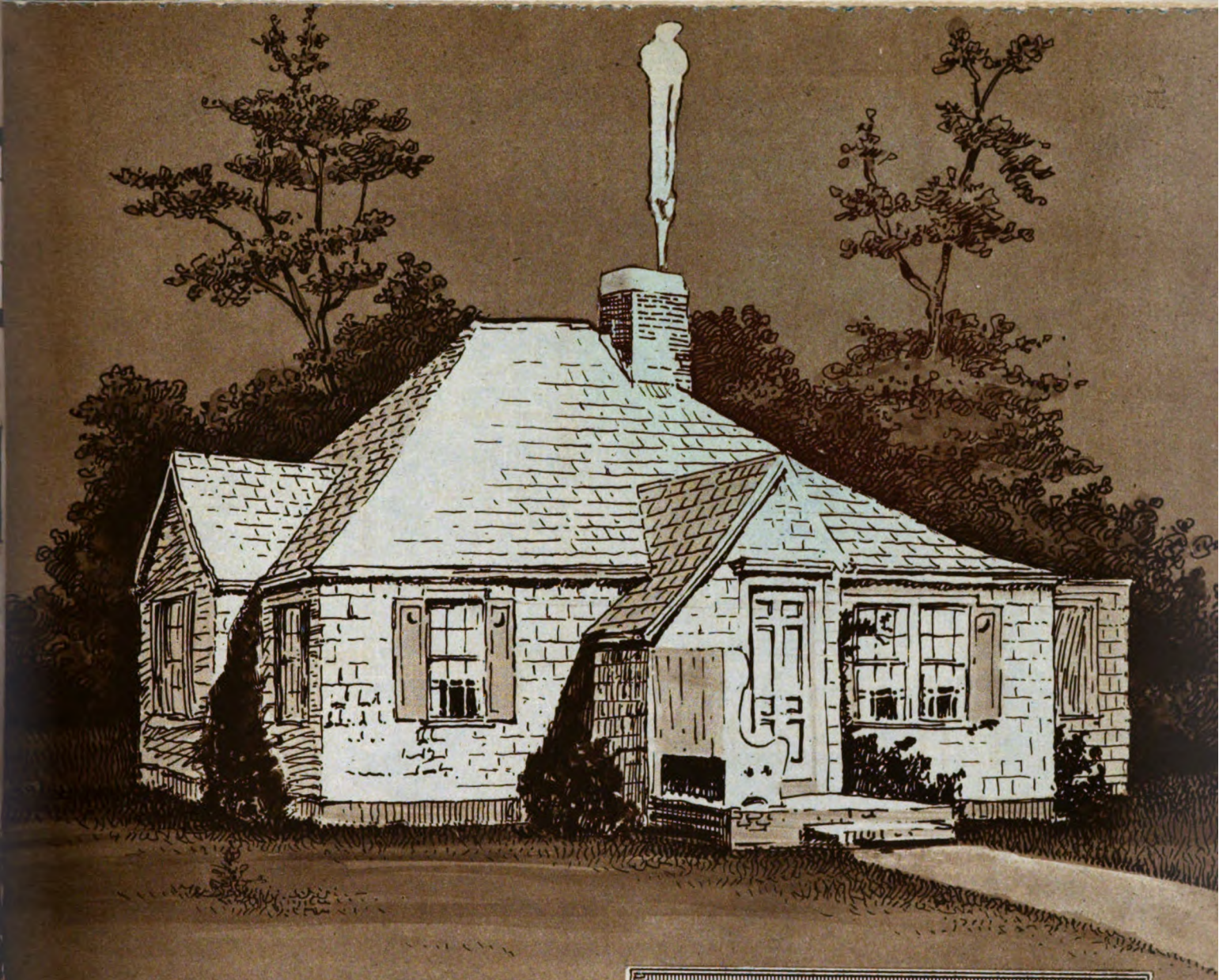
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Like a Manse *of* Olde England

THE man who designed and built this little home, had in mind a certain type of home buyer—one whose artistic taste refused to be second to the scope of his pocketbook. This prospect will sacrifice room area for compactness—elaborate finish for careful detailing. In these respects, C. C. Merritt, architect-builder of Larchmont, N. Y. has achieved his purpose. This is one of a number done with the same craftsmanship, none alike but each bearing the mark of the artist.

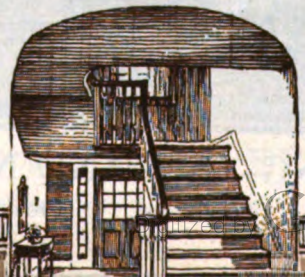


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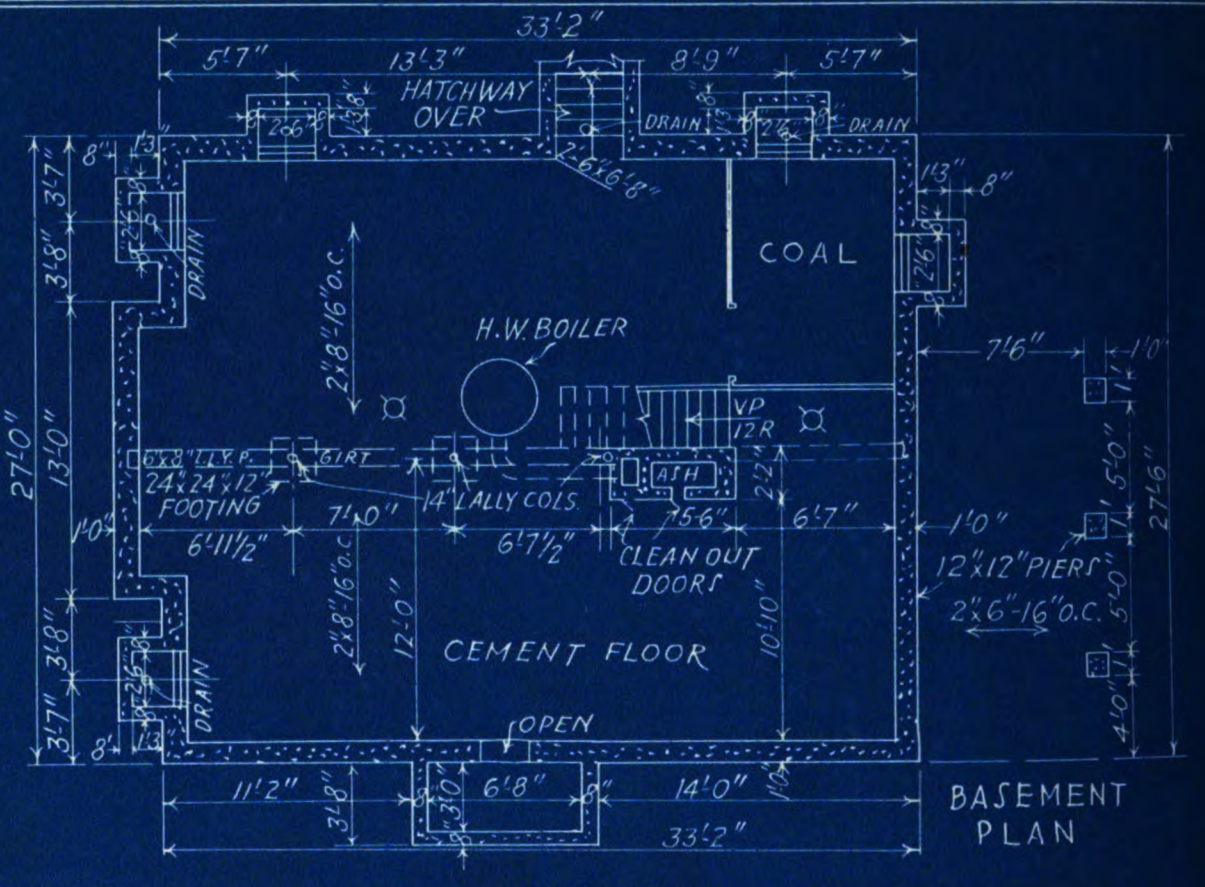


Unifying Comfort *and* Good Design

THIS design is marked by subtlety of line and an imperative feeling of well being. For the small family whose means may fall below their taste in architecture, this house has been especially prepared. Shingled walls have been suggested here as a compliment to its snug and congenial bearing. In any medium, however, the lines of this particular model would lend themselves to graceful, effective treatment. There are details that must not be omitted for fear of detracting from the architect's original intention. Roof lines, substantial shutters and entrance seat—these are all elements of importance. Perspective drawn by Arthur Bates Lincoln.



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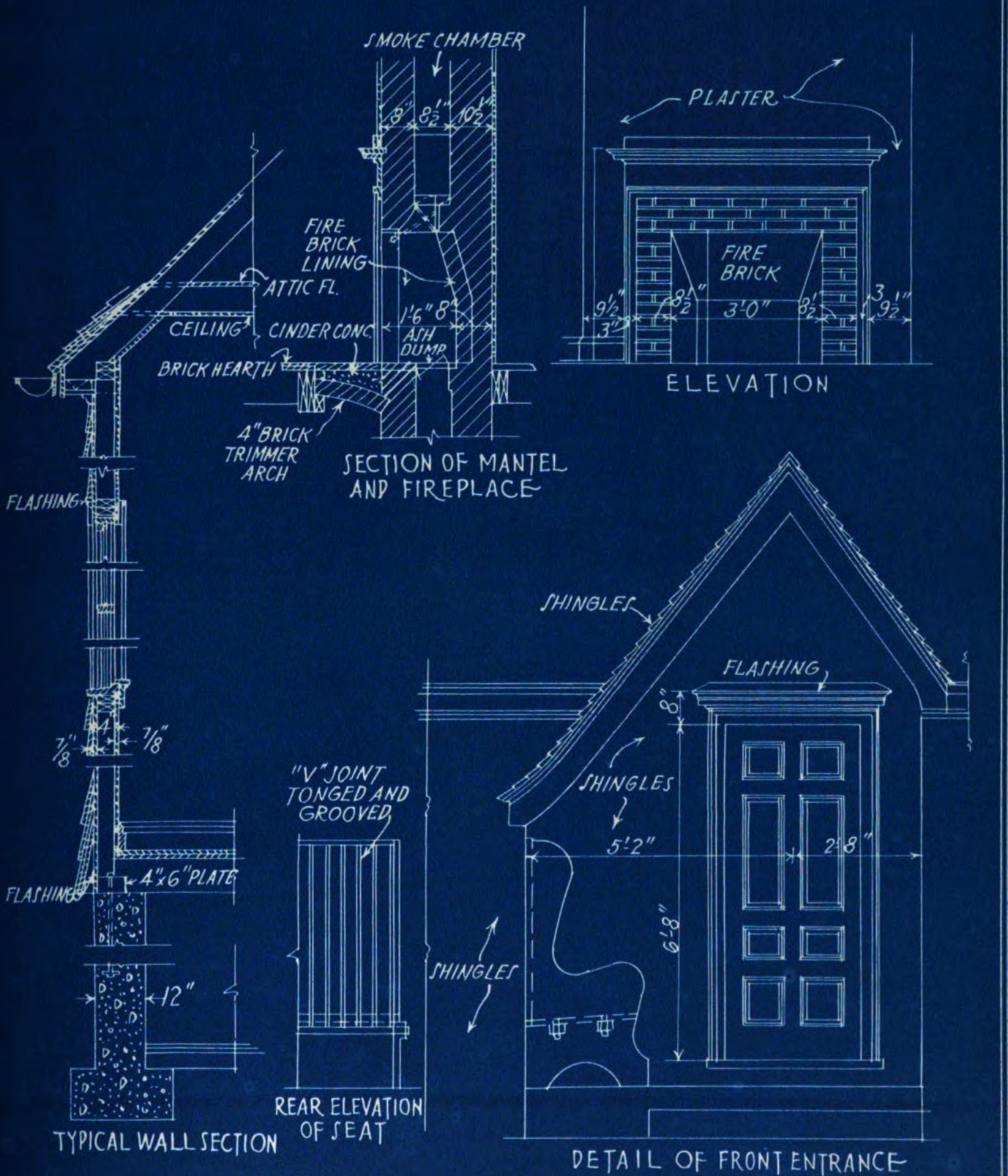
BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

December 1926

Designed by Home Owners Service Institute
Arthur Bates Lincoln, Architect

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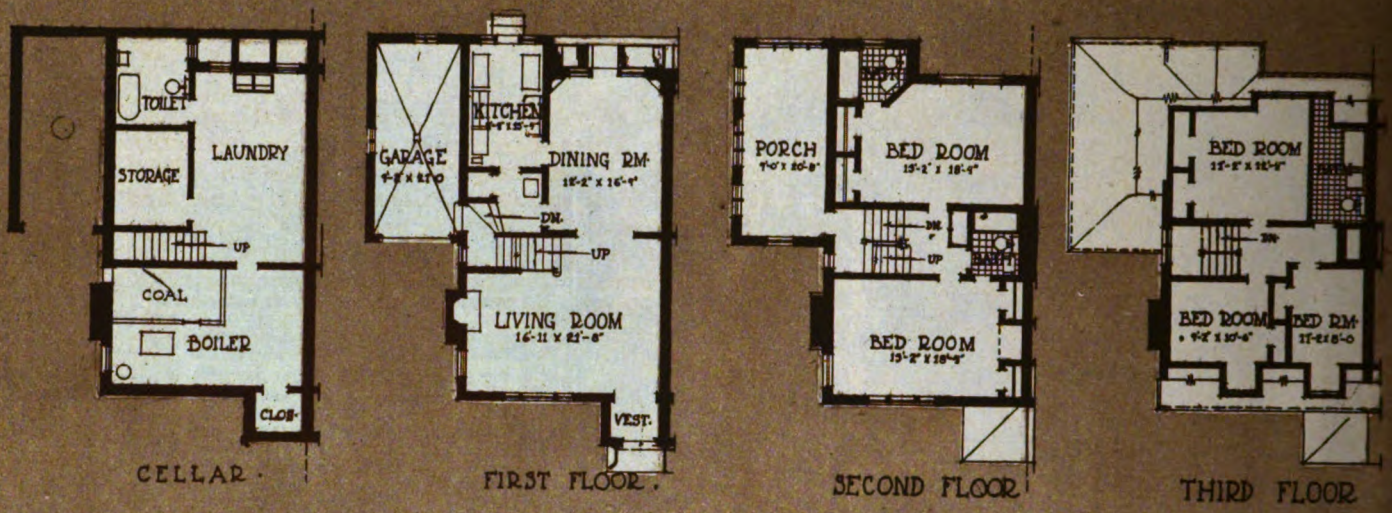


BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

December 1926 — Designed by Home Owners Service Institute—Arthur Bates Lincoln, Architect — Sheet No. 2 of 4

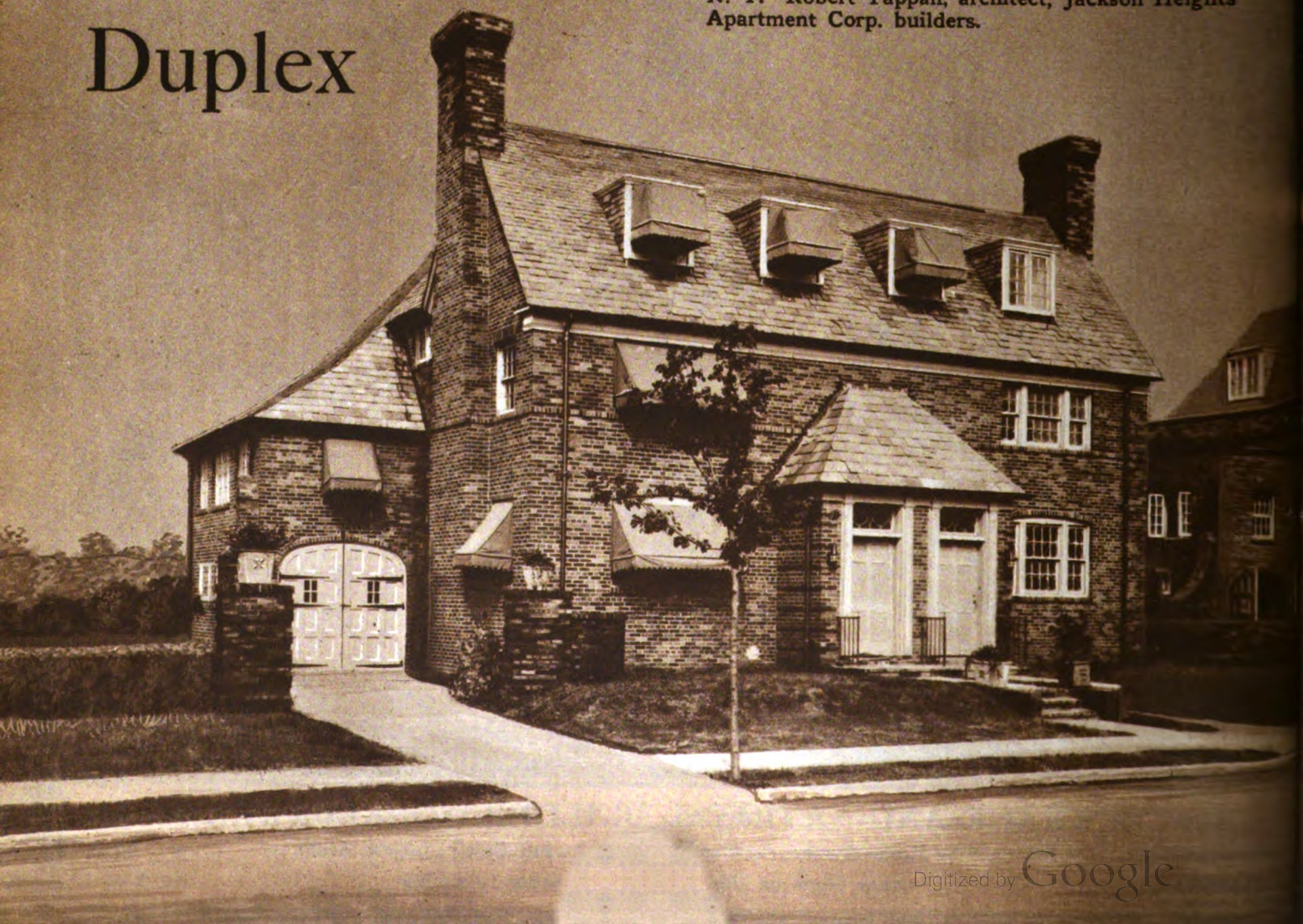
Other plans on third and fourth pages following

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English Garden Homes in Duplex

IN this twin house the garage has been made an integral part of the house with a sun room above it. The plans show how compactly each unit of this twin model has been given over to the needs of an average family. The first floor includes living room, dining room and kitchen with a small hall giving access both to cellar and garage. Above are three bedrooms and on the second floor two baths with three smaller bedrooms and one bath on third floor. This is one of the popular English Garden homes erected in Jackson Heights, Long Island, N. Y. Robert Tappan, architect, Jackson Heights Apartment Corp. builders.

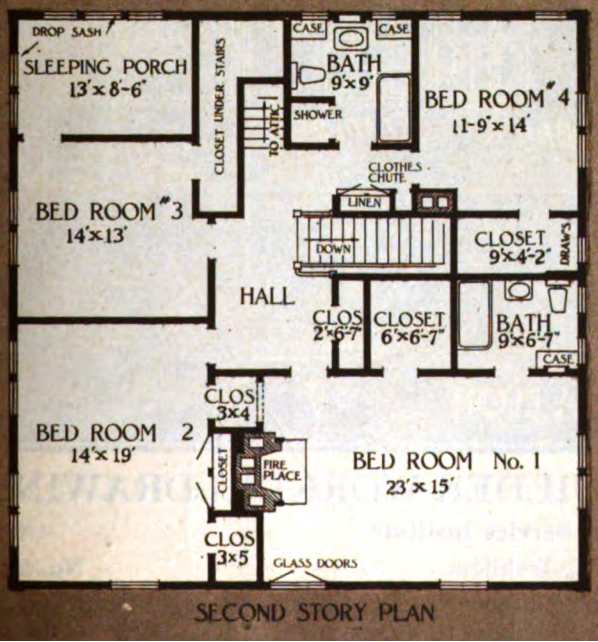


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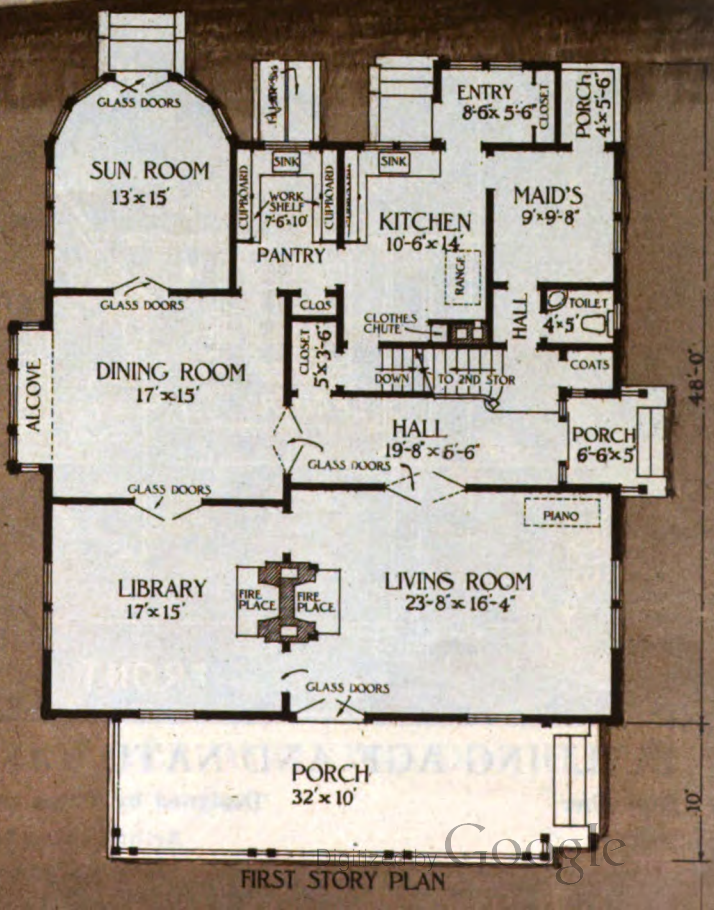
Simplicity *and* Dignity

A COLONIAL-STYLE house of frame construction. The outside walls are of narrow resawed siding which including the trim, is painted white. The roof is of shingles, stained a dark green, and the shutters at the windows are also in dark green. Red brick is used for the chimney, as well as for the foundation. The house is the residence of Mrs. Lucy C. Wicks, at Sherman Gardens, Utica, N. Y. The architect is Mr. E. W. Stillwell, of Los Angeles, California.



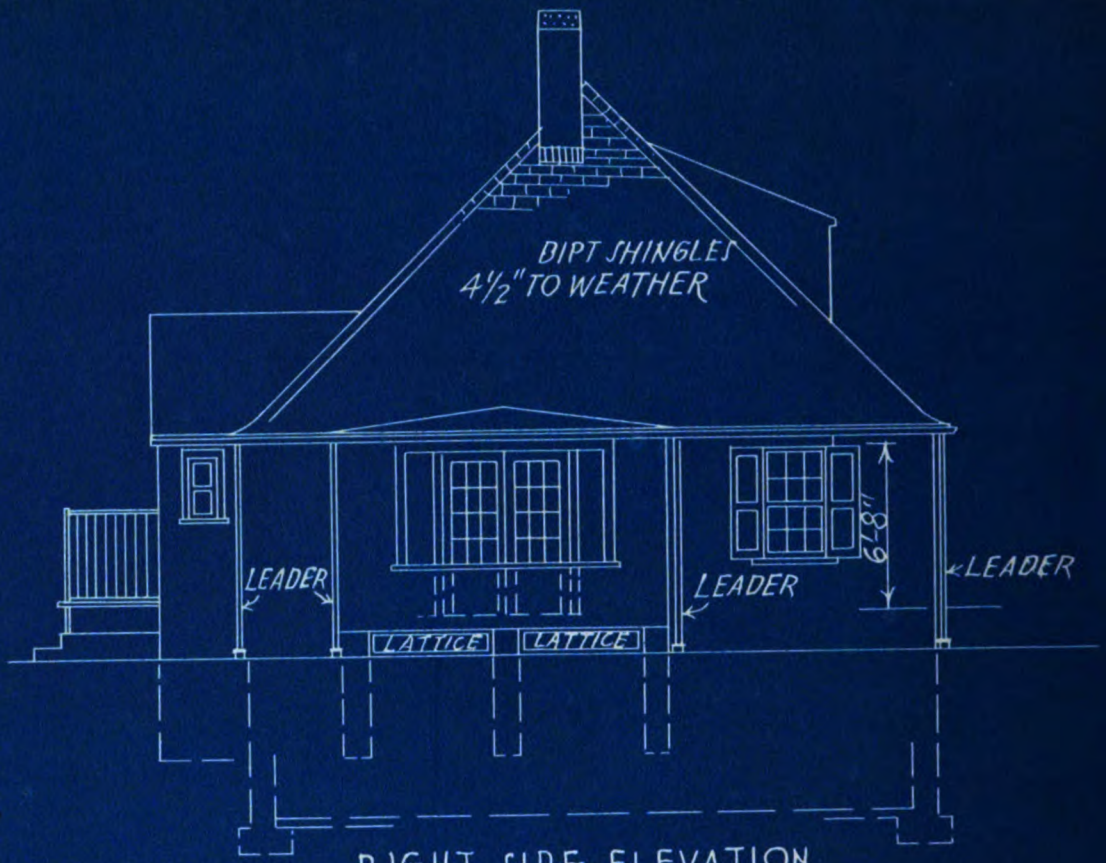


SECOND STORY PLAN

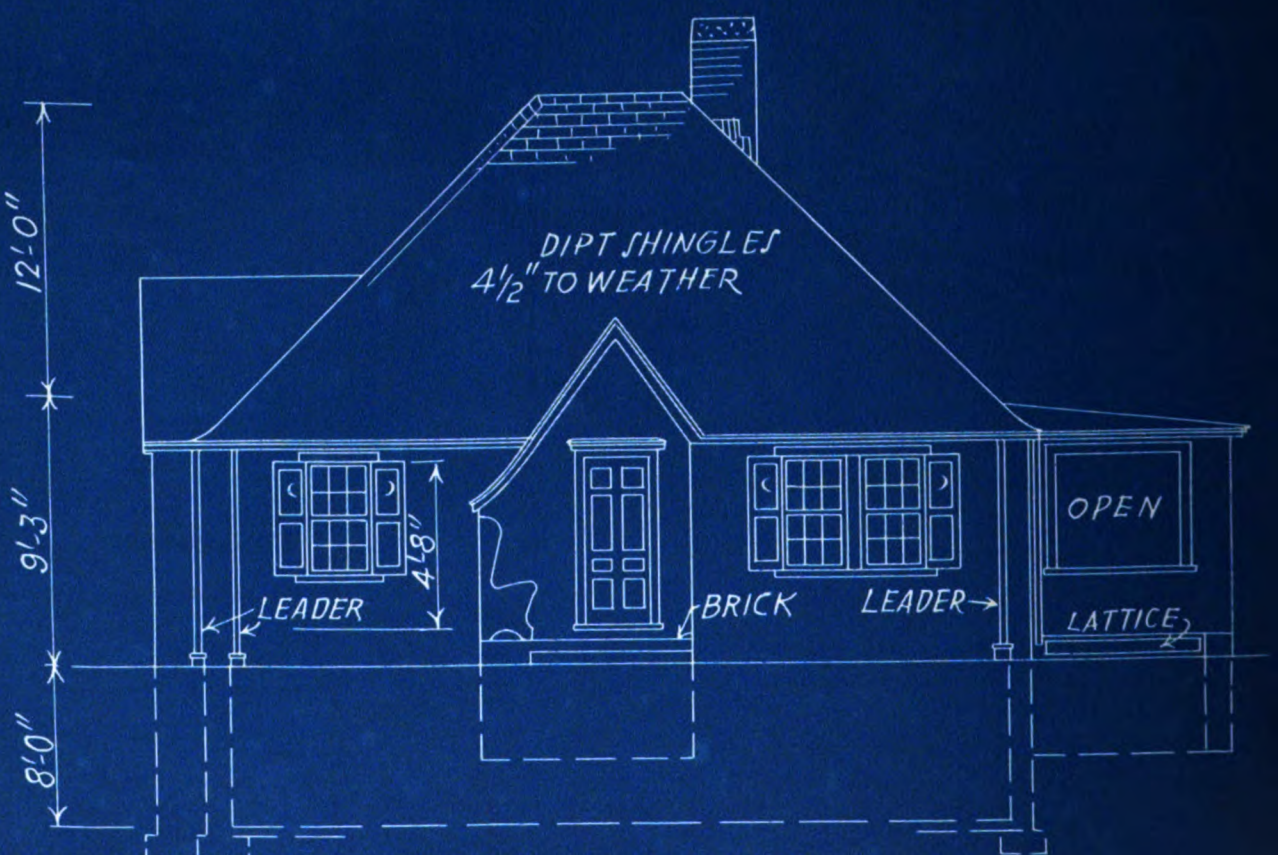


FIRST STORY PLAN

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RIGHT SIDE ELEVATION



FRONT ELEVATION

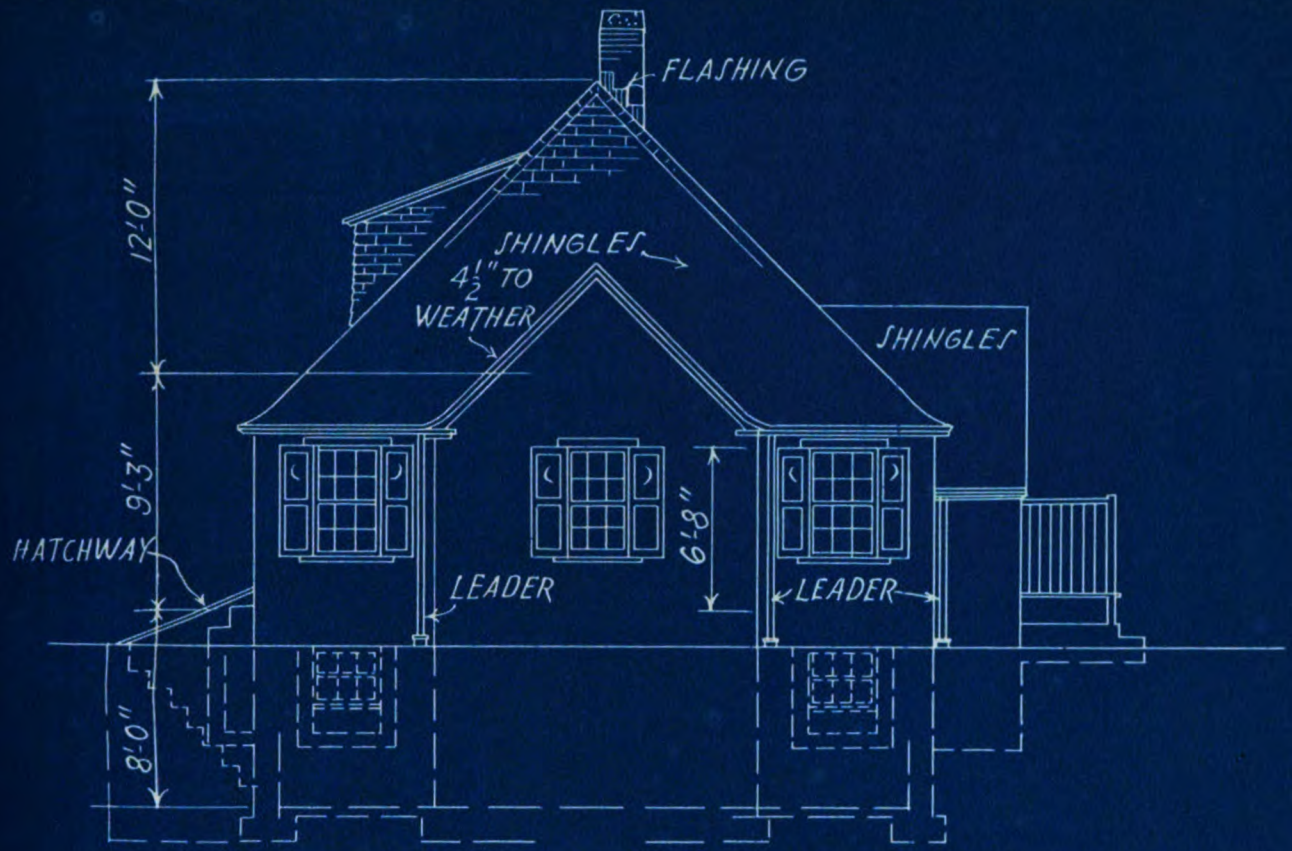
BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

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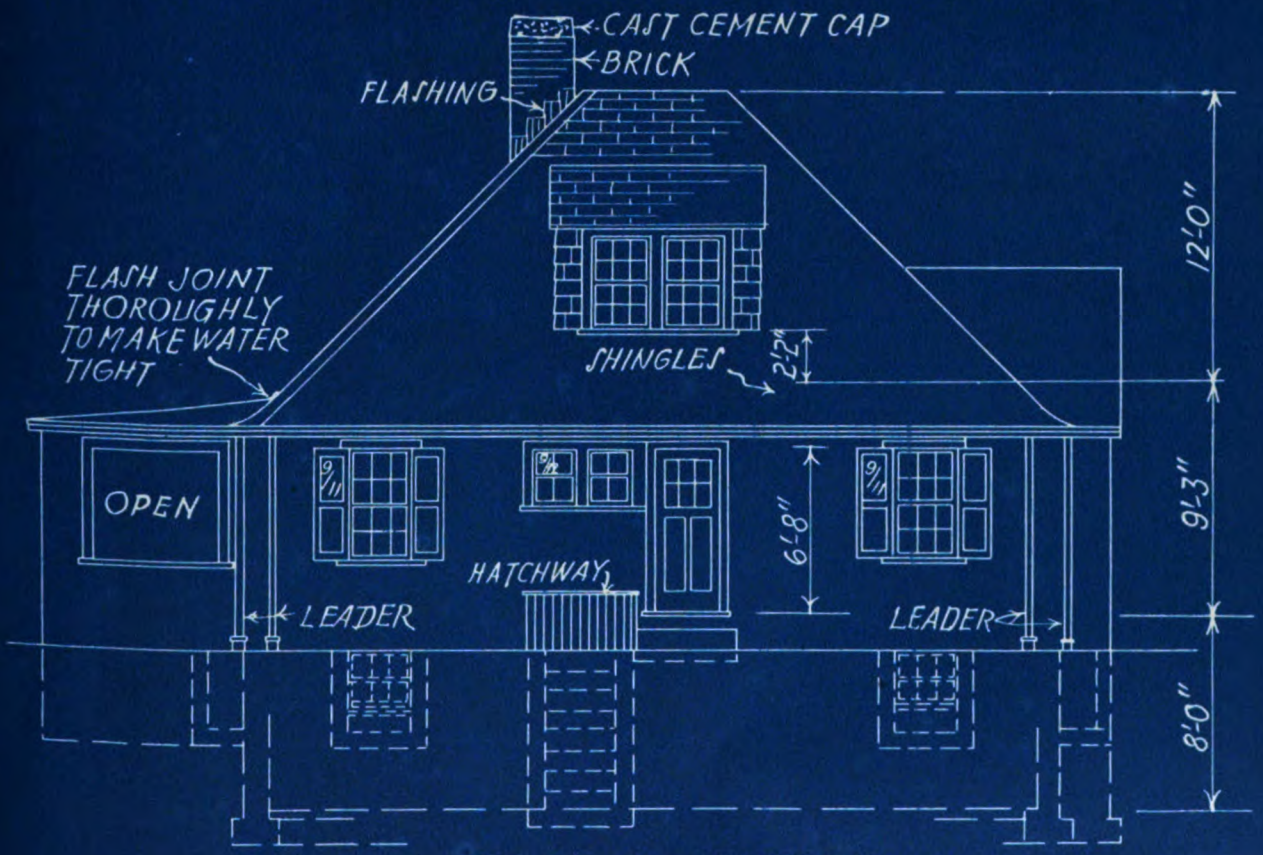
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LEFT SIDE ELEVATION



REAR ELEVATION

BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

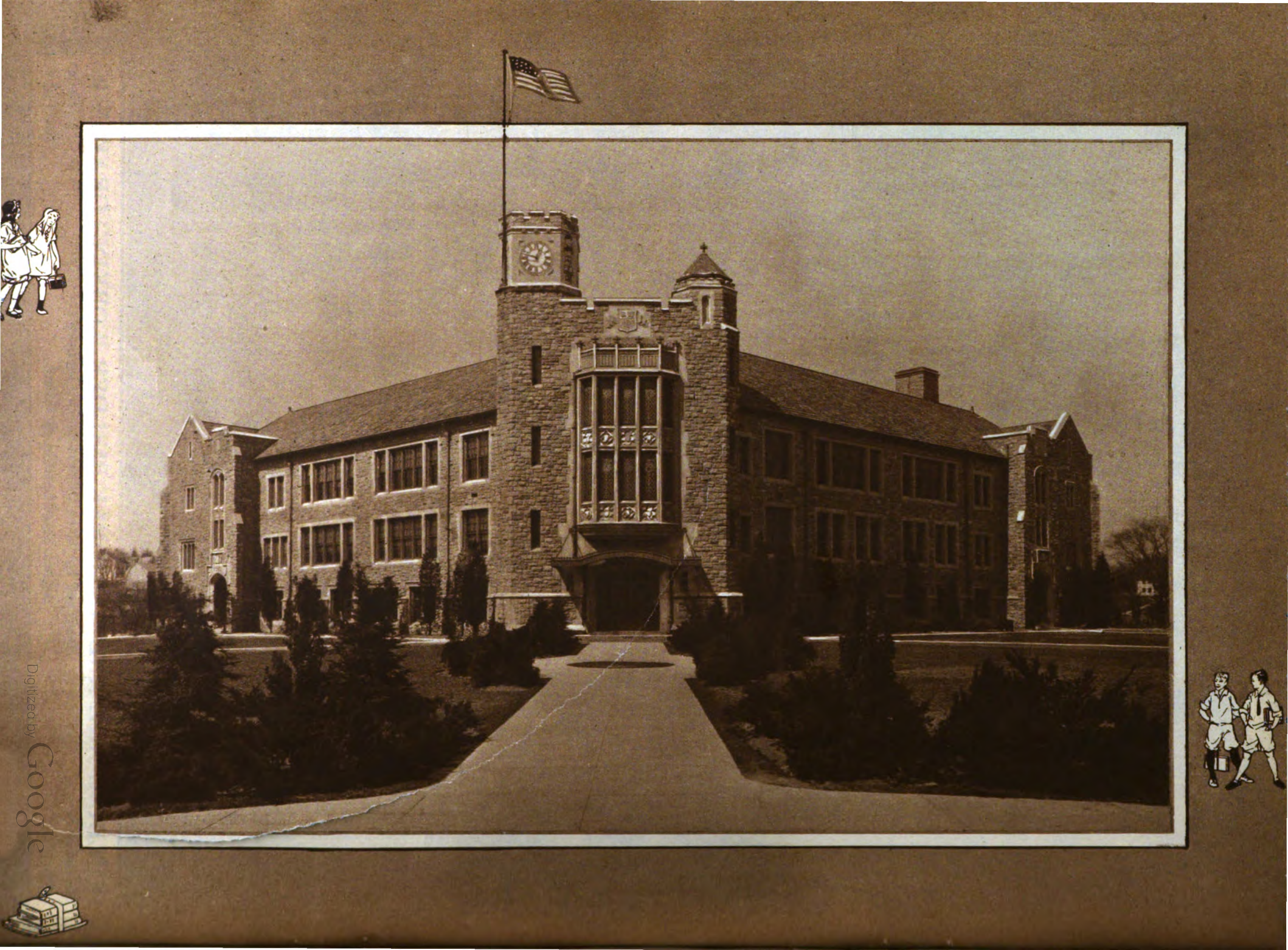
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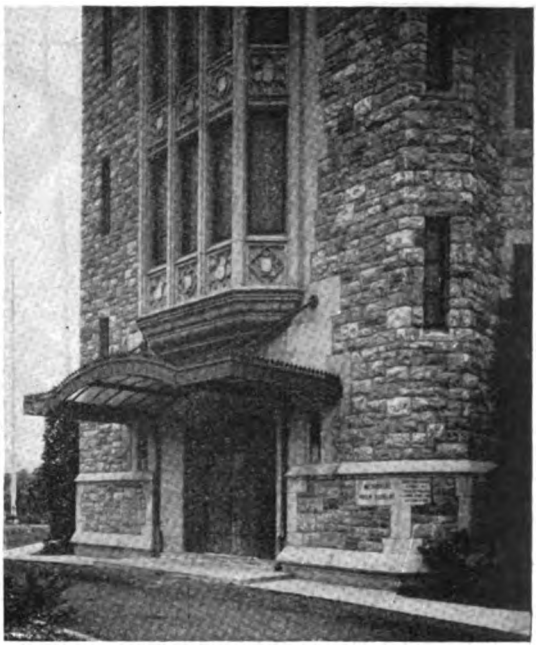


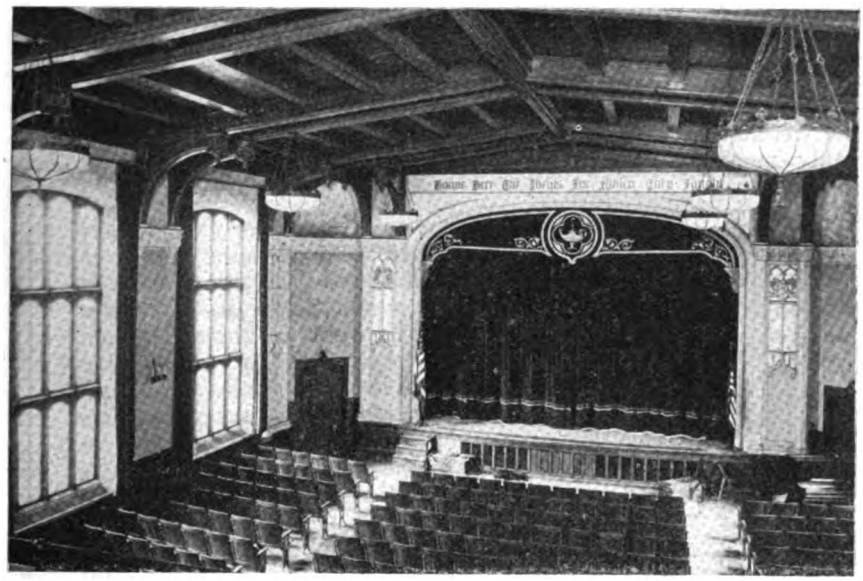
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A Memorial High School Building

at Pelham, N. Y.

A Distinguished Building Honoring World War Heroes





THE entrance of this high school building is made distinctive with a glass and metal marquise. To the left is shown a view of the auditorium with a memorial inscription over the proscenium arch. Photos by Browning.

Architects

Tooker & Marsh

New York

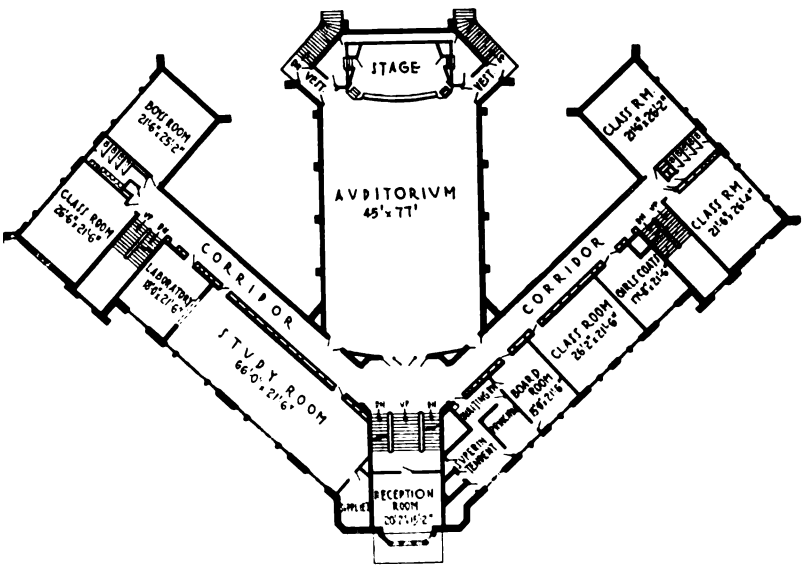
George T. Kelly, *Builder*

Pelham, N. Y.

TO provide something that will be a perpetual token of appreciation for the sacrifices of Pelham soldiers, the school authorities have erected this splendid building. From every standpoint, it is essentially a commendable and successful effort along the best lines of school design. It has a substantial look and yet does not convey that somewhat sordid impression association with school buildings of past generations.

The building is manifestly an institution but there is an air about it of well directed activity—an institution for developing Americanism.

The plans shown is representative of the efficient, compact manner in which departments and assembly rooms have been allocated for purposes of rapid rearrangement of classes during the school day.



Typical Floor Plan Showing Auditorium and Class Rooms

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TALKS with and Correspondence from our READERS



Conducted by the Building Counsellor

"THE condition of the building business," said the Building Counsellor, as he walked into the office and sat down near the box of cigars, "is a fruitful subject for conversation. It is as safe a talk opener as a remark about the weather. There is a difference however. Nobody does anything but talk about the weather and the building business is considerably more than talk. Just compare the figures for the three months past in the Review of the Building Situation, conducted by my esteemed fellow-worker, the Statistical Editor."

Advancing Prices Make Business Good

"People buy when prices advance. Professor Irving Fisher's Index of General Prices, that is published weekly, shows prices to be slightly on the up-grade. This means that people are buying. There has been a building boom. Every sign that one can read indicates that the building business will have at least one more good year. It may not be a boom but it will so closely resemble one that few people will know the difference. The reason is that the cost of living is not declining!

"Many builders thought that building would improve when prices went down but discovered their mistake very early. The average person stops buying when prices move downward. The faster prices fall the less inclined people appear to wish to buy. Each one is waiting for the bottom to be reached. On the other hand they rush to buy when prices are rising, in the hope that their funds will permit them to get what they want before prices go out of sight.

"A short time ago there was a slight drop in the index number of general prices and there was an uneasy feeling, that was reflected in slackness in placing new contracts. The banks saw this and credit became slightly easier. The effect was immediate. Prices advanced slightly, which reflected a demand for goods and new contracts were placed for materials. The building business once more looked favorable, although there are no complaints, so far as I know, about building being in a poor condition. A year from now we may begin to notice a silght decline.

Procrastination as a Controller of Policies

"Here it is again the month of December. Time to talk about radiators and concrete, about heating and insulation, subjects that really should have been discussed some time ago. The reason nothing was said in September, or October or November, is that people simply refuse to think of them. How many of you chaps listening to me cleaned your furnaces before the first nipping cold wind hit your town?

"A man asked me just the other day to say something about the best kind of paint to use on radiators. Would he have said anything about it in July? Not so you would notice it. But now cold weather is coming he wants to know all about it. December seems to be the month to paint radiators. November is the month to talk about turkeys, although the fattening of a turkey is something that takes time.

"It is not alone in the building business but in every line that one studies that we find procrastination governs policies. The seasons must be observed by discussing seasonable things. Talk in December about radiator paint will lead to the painting of many radiators. Talk in May of radiator painting will lead to a man making mental note of it and writing frantically to the Editor in December, asking him if he can remember just what month it was he gave information on the subject."

The Best Paints for Radiators

MANY years ago, 1909 it was, Professor John Allen of the University of Michigan told what he had discovered about radiator paints. He presented the following table:

Surface	Radiation
Bare Cast Iron	1.000
Terra Cotta Enamel	1.038
Snow White Enamel	1.010
White Zinc Paint	1.010
Maroon Gloss Japan	0.997
White Lead Paint	0.987
No-lustre Green Enamel	0.956
Copper Bronze	0.760
Aluminum Bronze	0.752

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Talks with and Correspondence from Our Readers

"The figures show that if bare cast iron be taken as a base, the heat radiating properties of various paints are as shown in the table. The paints one sees most often, metallic paints of copper and aluminum, are the most expensive to use for they cut off nearly one-fourth of the heat that is radiated. This is merely another exemplification of the old saying "Low first cost almost invariably means high up-keep cost."

Radiation and Convection in Heating

"The paint question is not quite as bad as it would appear when one discusses radiators. Heat is transmitted in three ways, namely, conduction, convection and radiation. The material of which the radiator is built is heated by conduction, the surrounding air is heated by radiation and this air being set in motion by the tendency of cold air to fall and push the heated air up, heats a room by convection.

"It has been determined that paint in the form of metallic flakes cuts down radiation about twenty five per cent. This applies to horizontal pipes. It affects vertical pipes in a much less degree because, the whole surface of the pipe being heated the air in contact with it begins to rise and is diffused after it reaches the top of the pipe. Experiments made by many parties and described in Technologic Paper, No. 254, Bureau of Standards, Washington, D. C., a paper that may be purchased from the Government Printing Office for five cents, show that there is a loss of only about ten per cent from vertical radiators painted with metallic paints.

"A radiator is admirably arranged to secure the greatest possible benefit from the principle of convection. A high radiator is better than a low one in this respect, because of the chimney-like action. A loss of ten per cent is serious and may be saved by painting radiators with common paints. That is, since the loss is much less when pipes are vertical and the radiator is made of vertical pipes, nested as it were, the loss is almost negligible with paints that are non-metallic.

"Aluminum and bronze flake paints are good conductors but poor radiators. Therefore in repainting radiators it is not necessary to clean off the old paint. It is the final coat that counts and this should possess good radiating properties. The end of the whole matter is that radiators need no longer be unduly prominent by being painted with silver or copper or imitation gold. The modern interior decorator uses radiators as a part of the furniture and paints them with the paint used for the trim."

The Hiding of Radiators

THE use of radiator enclosures is quite common, for even the most modern soul cannot see any beauty in radiators. Radiator enclosures are made by many companies and may be bought to suit any period style.

"There is said to be a slight loss of heat when radiator enclosures are used. This may be overcome by painting the entire surface of the radiator, the inside, generally unseen, surfaces as well as the exposed surfaces, with a paint having high emissive properties. The radiator enclosure may be painted to fit into the decorative scheme.

"The one drawback to such an arrangement is the immovability of the radiator. It is placed where the heating engineer believes it can best function and there it must remain. All of the furniture must be arranged to fit the arrangement of radiators. The use of radiator enclosures of artistic design is doing much to help this situation."

Heat Cabinets

A NEW heat distributor has come on the market recently. It was devised with the idea of making radiators less conspicuous. It resembles in appearance a handsome radiator enclosure, but there are other forms that make it look like a desk or a radio cabinet or handsome wall cabinet. The internal construction differs considerably from a radiator of the common type. These heat cabinets rapidly are displacing old radiators in many homes."

Concealed Radiators

"There is another type of heat distributor called a concealed radiator, and also, an invisible radiator, on the market. The heating element consists of a large number of very thin plates of a metal that is a good conductor, placed upon a steam pipe. The unit is made for a 4" wall.

"The unit is placed near the floor and an opening is left in the base board. A shallow conducting box is placed in the wall to carry the heat nearly to the ceiling. Just below the ceiling level it turns and delivers the heat through a grille into the room. The grille then becomes part of the wall decoration and the opening in the baseboard may be concealed, or at least be rendered inconspicuous, by a chair or a table placed before it. All that one sees of the heating apparatus is a grille in baseboard and one near ceiling.

"The delivery of hot air from a point near the ceiling is a most efficient way for heating a room when the emitted air is clean. The air being warm has a tendency to rise, so it spreads over the ceiling in an attempt to rise. Being slightly cooled by contact with the ceiling it falls and warms the whole room very nicely. It is recirculated and when a window or door is opened the recirculation is more rapid.

"The radiator displaced the stove and now the visible radiator may shortly be displaced by the invisible radiator. When the heating apparatus no longer is visible one of the great difficulties of interior decorators will be done away with."

Outdoors In the Cold

"December being the ideal month in which to talk of methods to overcome the discomforts of winter is a good month in which to issue the annual warning about the effect of cold weather upon concrete.

"When the temperature begins to fall below

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Talks with and Correspondence from Our Readers

50 deg. F. every contractor should begin to take precautions. Thermometers should be in evidence on every job; leaving nothing to guessers. Cut down the amount of mixing water and increase the amount of cement. Double the mixing time, for all of these things make the concrete set more quickly. Put enclosures around the job in order to keep the temperature uniform. Heat the water, sand and stone.

"When the temperature falls as low as 50 deg. F. in the afternoon and falls below 40 deg. F. within three hours after quitting time, it is time to make preparations to heat the enclosure to a temperature in excess of 50 deg. When the temperature falls as low as 35 deg. F. within three hours after quitting time the enclosure should be heated to a temperature of not less than 60 deg. F., and the temperature of each batch of concrete should be not less than 70 deg. F.

"When the temperature falls below 32 deg. F. (freezing point) the temperature of each batch should be not less than 70 deg. F. and the temperature of the enclosure within which it is poured should be not less than 70 deg. F. It should not be permitted to fall below 60 deg. F. within three hours after quitting time. If such temperatures are impossible of realization then get as close to them as possible. The lower the temperature the slower the setting of the concrete and the longer time it will be necessary to leave forms in place.

"Above all, keep plenty of thermometers on the job and do not trust your skin as an indicator of temperature. Your skin may be as comfortable in cold weather as the skin that covers the knee of a savage. Be sure of your temperatures."

How To Make Quick Strength Concrete

THE secret of concrete work in cold weather is to have material set up in a short time. Therefore the amount of water must be cut down and the temperature be held high. By proper manipulation of materials it is possible to obtain a concrete that will have as much strength in 3 days as ordinary concrete obtains in 28.

"The following points are to be observed when one wishes to have quick strength concrete, and please to note that quick strength does not mean quick setting:

(A) Reduce the usual amount of mixing water about one-third. The mixture will then be pretty stiff and must be rammed into place. It will not flow.

(B) Increase the amount of cement about fifty per cent; that is, use three bags in place of two.

(C) Keep the material in the mixer not less than two minutes.

(D) Warm all of the materials so the temperature of the concrete will be not less than 70 deg. F. Place it at this temperature.

(E) Keep the concrete at a temperature of 70 deg. F. for not less than three days.

(F) Keep it moist for three days.

(G) Whenever advisable use calcium chloride in the mixing water.

"While it may not be possible to obtain such results in the winter because of the difficulty of keeping the temperature close to 70 deg. F., a very close approximation may be made with consequent good results in making the concrete. It should not be at all difficult to obtain quick strength concrete in summer weather.

"It appears that in the advertising pages there are some companies that offer to send to inquirers some quite useful and valuable pamphlets on how to make quick strength concrete and also how to make good concrete in cold weather. Better write to them."

New Home of Portland Cement Association

"Last winter we presented a picture of the new building of the Portland Cement Association in Chicago, Ill., under construction. It was a winter job, purposely done in the winter. The object of the Association was to prove that just as good concrete work may be done in the winter as in the summer. Now we have the picture of the completed building.

"The architects were Holabird & Roche, the well known Turner Construction Company being



Fig. 1. New home of the Portland Cement Association, a Winter construction project

the contractors. The foundations are large enough to provide for running the building higher with several stories added, if required in the future.

"The offices, formerly in the Conway Building, have been moved to the new structure. The Materials Testing Laboratory, for ten years located in Lewis Institute, and operated co-operatively by the Portland Cement Association and Lewis Institute, now are in the new building. Thus all of the activities of the Association are under one roof.

"The Portland Cement Association is a fine example of modern organization. It exists for the sole purpose of benefiting the industry. Architects, builders, engineers and owners everywhere are deeply indebted to the Association for the excellent work it has done and is doing, to promote knowledge in the use of cement."

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Talks with and Correspondence from Our Readers

Protecting the Sub

IT has been a too common practice with a certain class of general contractors to make up a bid by adding the sub-bids received and adding the profit they wish to obtain. When the contract is obtained another call is issued for sub-contracts and the cost is lowered with a consequent benefit to the general contractor.

"In an endeavor to stop this practice it is now customary for the better architects to demand that the general contractor when submitting his bid turn in a list of the sub-contractors whose figures were used in making it up. If the contract is awarded to him no other sub-contractors may be substituted. If changes in the sub-contractors are made it can be done only upon receipt of written permission from the architect and owner. Written permission is not granted very easily, and thus we note progress towards making the building business as reputable as it most certainly should be."

ONE of the letters received recently contained a request for information on stairs. The opportunity for preparing quite a paper was too good to be missed. If you catch anything worth correcting or commenting upon in the discourse I am about to deliver, let us have it for the good of the readers. Information of this nature is worth passing along.

Concerning Stairs

THE first question was a request for information as to how to get the number of steps required. Naturally this will depend upon the height from floor to floor and the height of each riser. If there is an eighth of an inch fraction in the riser then the riser height as well as the height from floor to floor should be expressed in eighths of an inch. If there is a quarter of an inch fraction then express the two heights in quarters of an inch. If there is a fraction of a half-inch in the riser height then express both heights in the number of half-inches they contain. Divide the total height by the height of one riser and thus obtain the number of risers. The number of steps will be less by one, for the last riser reaches the floor above.

"A stair scale is a handy thing to use. I have a set I made a number of years ago, one of which is shown in Fig. 2. Using a scale of one-quarter inch to the foot the scale was drawn upon celluloid with a needle and the lines were filled with India Ink. The majority of draftsmen make such scales upon tracing cloth. The horizontal lines have intervals between them corresponding to the riser height. Notice the numbering, which is done in order to avoid errors in fitting the scale to a drawing. The lower line of steps marks the steps themselves. The upper line is 6 feet and 6 inches above the lower line and is placed on the scale for the purpose of obtaining head room.

"The upper line must clear the ceiling of the lower floor, thus fixing the length of the stair well. The sums of riser heights enable the draftsman to reach the level of the upper floor exactly, it being assumed that he has pencilled the total height from floor to floor upon his section. To use the scale make a section of the building upon the same scale and place the scale over it, with the bottom step starting from the lower floor. I have ten scales with rises varying from 6⅞ inches to 7⅛ inches, varying by ⅛ of an inch, all drawn to a quarter-inch scale."

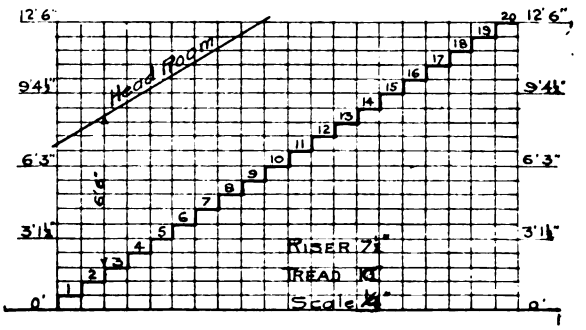


Fig. 2.—A stair scale made to ¼" scale. Risers 7⅛" and treads 10"

The Dimensioning of Steps

"This inquirer wanted to know how to dimension steps and I propose to tell all that I know about it.

"In Great Britain it is customary to start with a tread width of 12 inches and a riser height of 5½ inches. When the width of the tread is diminished by any amount the riser height is increased by one-half that amount. When the width of the tread is increased by any amount the riser height is decreased by one-half that amount. This however, makes treads narrower than is customary in American practice for the usual heights of treads.

"Take for example a riser with a height of 7 inches, the usual practice in this country. This would be an increase of 1½ inches above the base riser, thus making it necessary to subtract 3 inches from the base tread width. The tread then will be only 9 inches, which is shorter than we like in the United States, except for back stairs.

"A rule in common use is to make the sum of the tread and riser between 17 and 18 inches.

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Talks with and Correspondence from Our Readers

This is in more common use than any other in this country. One that follows it very closely in popularity is that the product of the tread and riser shall fall between 70 and 75 inches. Divide 70 (or 75) by the height of the riser to obtain width of tread, or, vice versa.

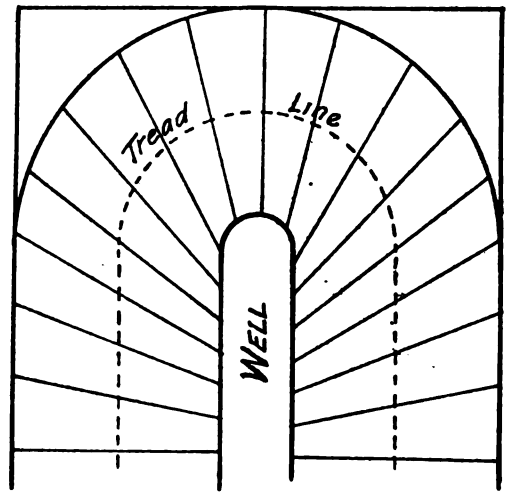
"In Germany the British rule for proportioning steps is folowed for all risers between 5½ inches and 7½ inches. When the riser is less than 5½ inches of the sum of the tread and the riser must equal 18½ inches. When the height of the riser exceeds 7½ inches the width of the tread is obtained by dividing 77.5 by the riser height.

"In my opinion, after seeing many stairways in many countries, the most beautiful stairs in the world are to be found in France. They are easy also to use. The rule most greatly favored in France is that the width of the tread plus twice the height of the riser shall be between 24 and 25 inches. Many American architects follow this rule, myself included.

"French architects however adopt another little

FIG. 5.—(Right) Balancing the treads on a returning staircase. This method is similar to Fig. 3—adding the length of circle on inner string face to a length of an equal number of straight steps

Fig. 4.—(Below) Making a short cut of balancing treads at the corner of a landing.



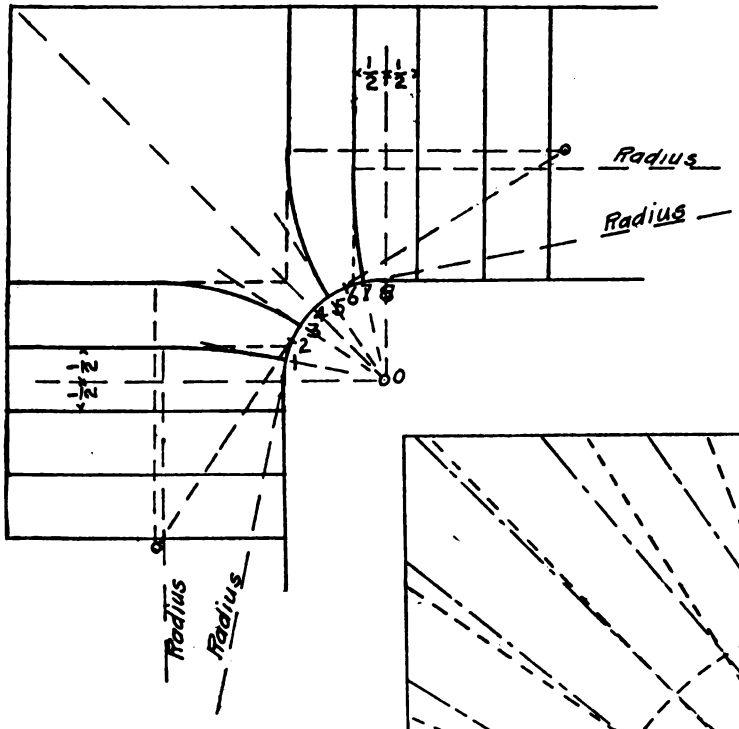
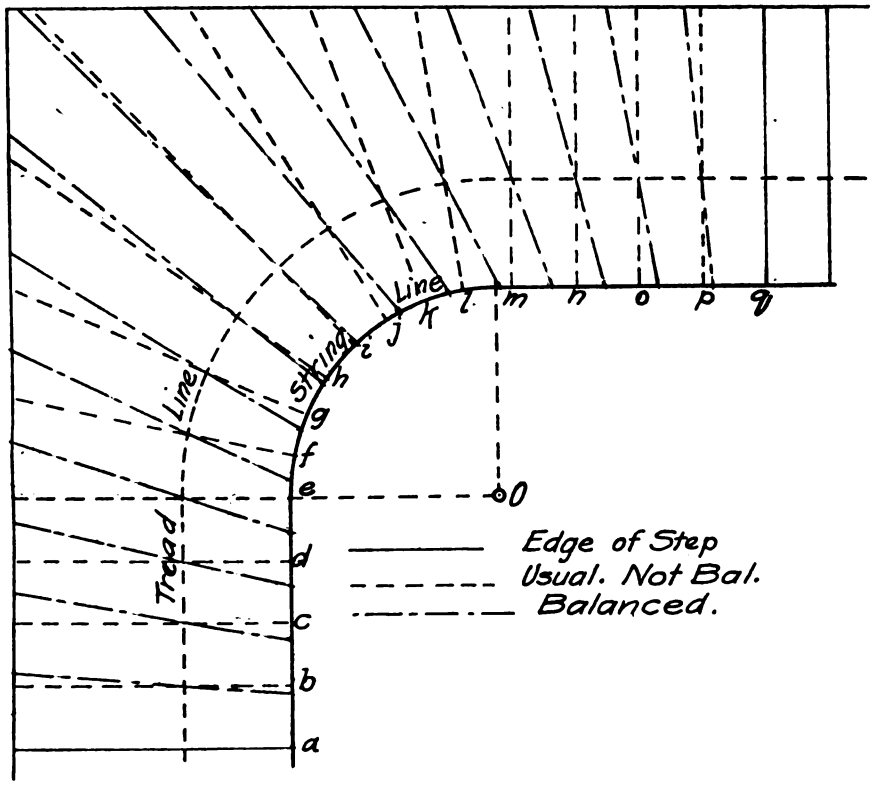


FIG. 3—(Right) Showing method of balancing a straight turn with winders. Dotted lines show the edges of steps if edges were to run to zero. Balancing takes in twice the number of steps that are on the turn



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Talks with and Correspondence from Our Readers

artifice that is of great service. The riser height from the first to the second floor may be from 7 to 7⅛ inches. This will be reduced ¼-inch between the second and third floor, and so on progressively lessening by one-quarter of an inch in each story. This reduction might amount to as much as 1½ inches in the seventh story if the building has such a height.

"Some men make the progressive reduction by ⅛-inch in each story, but no matter whether it may be large or small it is there. The widths of the treads are proportional to the riser heights and thus one does not tire readily when going up French stairs. I discovered this fact by measuring the stairs in a number of houses and when it was mentioned to some architects, they referred me to a book by Mr. Barberet, entitled *"Constructions Civiles."* It is the equivalent in France to our Kidder-Nolan Hand Book. This method of making stairs easier to ascend as one rises is given in the book mentioned."

The Balancing of Stairs

THE winding stair has gone out of fashion in America for it is considered to be dangerous. Square landings have taken its place. The winding stairway is, however, very convenient for it requires less space than one with square turnings. When properly made it is beautiful in appearance and not dangerous in use. Nearly all stairways in France have winders in them and all the winders are balanced.

"The width of the tread at a distance of 18 inches from the inside stringer is the normal tread width for the flight in question. This corresponds to the requirement in some American codes that the width of the tread at a distance of one foot from the inside shall be not less than 9½ inches, a requirement so severe that it practically eliminates winding steps, unless there is a fairly good sized stairwell.

"In designing French stairways with winders it is customary first to settle upon the riser height. This is generally the custom in all countries for all stairways, the tread widths being determined after settling upon the number of steps with fixed riser height. After determining the tread width this, on a winding stairway, is set off on a line 18 inches from the face of the inside string.

"Balancing is really simple. It consists in increasing the inside width of the winding stairs over the width they would obtain were the edges to run to a common center. The increased width on the winders is obtained by diminishing the width of four or five steps below and above the risers on the line of the inside string.

"The width at the face of the inside string is found first and set off on a large scale drawing. A line is then drawn from the point found, through the tread width 18 inches from the inside string, to the outer end of the step. The following examples will show how the work is performed."

Balancing a Straight Turn

"A straight turn is shown in Fig. 3. The center of the curve of the turn is at 0. The dotted lines show the edges of the steps if the edges were to run to 0. Th dashed lines show the edges after the balancing is done. This balancing takes in twice the number of steps that are on the curve. The width on the inside string is found by adding to the length of eight treads the length of the curved portion of the string. This gives the length from *a* to *q*, Fig. 3. Dividing this length by 16, the number of steps, the width of each is found. This is then set off on the string line and the edge of each step is produced through the "tread line" to the outer ends of the steps."

Balancing A Landing

"It is not uncommon to balance steps that go around a landing, thus satisfying that large class of people who like to make short cuts. How this is done is shown in Fig. 4 and as the illustration is clear no further explanation is required."

Balancing a Returning Stairway

"To balance a returning stairway properly requires a well. It is dangerous to turn a stairway around a small post and balancing cannot be done unless there is a wide space between the inner ends of the steps.

"This type of stairway is of frequent occurrence in France. There are many methods used, all more or less empirical but the preferable method is to follow exactly the method shown in Fig. 3, namely to add the length of the circle on the inner string face to a length of an equal number of straight steps. This is shown in Fig. 5. Then set off on the inner string the tread widths and draw lines from these fixed points through the points on the "tread line."

"Returning stairways of an elliptical shape and also of corkscrew or snail shape are built, these stairways having no straight sections at all. First lay off the curve of the inner string, then the curve of the tread line. On the latter lay off the treads. Then ascertain the length of the inner string and divide it into the same number of parts. Connect the points as already shown and the stairs will be balanced. Balancing, it need hardly be stated, serves to reduce the steepness of the steps at the inner ends, thus increasing the safety of the stairway. When stairways are balanced they are more beautiful in appearance than straight runs and also require much less space. There is no reason why they should not be in more common use in this country."

Why Not Use Back Stairs?

WHY are not more back stairs used in our homes? I was engaged on the structural designing of a magnificient New York home three years ago. It cost about one-third of a million dollars and the architect provided only one stairway. It was in the front of the house and wound

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Talks with and Correspondence from Our Readers

around an elevator. The idea was that the elevator would ordinarily be used but when entertaining was done the grand staircase would be used.

"A casual inquiry as to what provision had been made for servants to go up and down set the office of the architect by the ears. It is a fact that a rear stairway had not been considered, this architect and his draftsmen never having been employed before to plan such a grand house. The architect thanked me warmly for having called his attention to the matter before the owner had an opportunity to notice the omission.

"A corkscrew stairway was put in and later a push button elevator was provided as well so that the servants could go up and down without being seen by visitors. Now, this is a feature that we should provide in every home, no matter how small it may be. If it has two stories there should be some method provided for the lady of the house to go upstairs from the kitchen without being seen.

"It is a feature I have provided in a number of homes and no man or woman ever begrudged the space used for this purpose. It is awkward for a woman busy in her kitchen to be compelled to receive callers without having any chance to escape unobserved to a place where she may make a quick toilet. A back stair assures great peace of mind. Take as well the case where the visitor is being entertained and a fine impression is being made, only to have it spoiled by the maid, or perhaps some badly soiled children, going through the hallway in full view to use the stairs. It is not nice and back stairs would save much mortification.

"In looking over a large number of plans recently I made studies to see just how and where back stairs could be fitted in on the plans. In nearly every instance I succeeded in a way that did not entail much added expense and did not cut out much room. This is something every architect and builder should consider. In late years the habit has been acquired of omitting the back stairs. It is time a new habit were acquired, of putting them in so that we may be as comfortable as our ancestors were with plenty of stairs. Here is where winders may be used, provided they are balanced. I designed a house recently with winders around the clothes chute, thus obtaining a corkscrew stairway with safe treads."

IT takes an up-to-date man to keep track of the things an architect is likely to put into a contract these days. Here is one that I copied from a contract that was made in New York City a few months ago. The two sub-contractors have been in partnership for a number of years and it is said they came from the same village on the other side of the Atlantic. They were born the same week in neighboring houses and went to school together. In fact they quarrel like brothers on every job they tackle, but when either one has a quarrel with an outsider they join in putting him off the job. It is said that their combined efforts have put many men into hospitals. They are excellent workmen, however, and on a recent contract the following clause was put in: "It is further agreed that Messrs. Blank and Dash will refrain from quarrels and will not cause any amongst other workmen and that they will co-operate with other contractors and workmen on the alteration job to the best of their ability—and should disputes arise, they will submit the same to the architect or the owners for settlement."

Now We Know What "Sharp Sand" Means

WE asked, in the October issue for a definition of sharp sand and several correspondents are hereby thanked for the letters they wrote to us on the subject.

"The common opinion appears to be that it must be bank sand with sharp edges that will interlock to make mortar and concrete strong. The correspondents fear that sand that has been exposed to the action of water and has round grains, will not do for concrete.

"Just so. It is as we expected. The expression is at least a century old and appears to have been introduced by a contractor who had a sand bank containing just that sort of sand. Today it means nothing. The term 'sharp sand' should be replaced by the term 'Well graded sand.' Experiments have shown that rounded grains are not one bit inferior to grains with well defined edges. If anything, the round grains are better for they pack better. The grading of sand from coarse to fine, so the finer particles will fit into the spaces between the larger particles, makes the difference between good and bad sand. If all of the grains are nearly the same size it will be necessary to use more cement, no matter whether the grains are large or small. The secret of good concrete lies in using sand that is well graded in size and large aggregates that are well graded in size, in order to secure the greatest density with the minimum of cement. 'Sharp sand' is obsolete."

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News from the Field



Insurance for Contractors' Employees

FOR the second time in six years, the George A. Fuller Company has rearranged its group life insurance program, adopted in November 1920, in order to increase its employes' protection. More than 145 members of the company's office personnel are now covered for approximately $450,000.

The George A. Fuller Company, one of the leading building contracting concerns in the country, has branch offices in Chicago, Boston, Washington, Philadelphia, Miami and Montreal, and in all of these cities employes are covered by the provisions of the group insurance program which is being underwritten by the Metropolitan Life Insurance Co.

The combined plans are cooperative. The Fuller Company is paying the entire cost of insurance issued under the original contract, while the additional insurance, issued this month and in November 1925, was established on a contributory basis with premiums paid jointly by the employer and employes.

In addition to the actual protection created by the group program, which provides an individual maximum of $3,000 for employes in certain classifications, a number of service advantages also are included. Among these are a visiting nurse service and the periodical distribution of health conservation pamphlets.

An Architectural Scholarship

THE Governing Committee of the James Harrison Steedman Memorial Fellowship announces the second Competition for a Fellowship of the value of $1500, the holder of which is to pursue the study of architecture in foreign countries. This is open to all graduates in architecture of recognized architectural schools of the United States.

Application blanks for registration can be obtained at any time upon written request to the head of the School of Architecture of Washington University, St. Louis, Mo. These must be returned to the Committee not later than January 14, 1927.



Hotel Figueroa

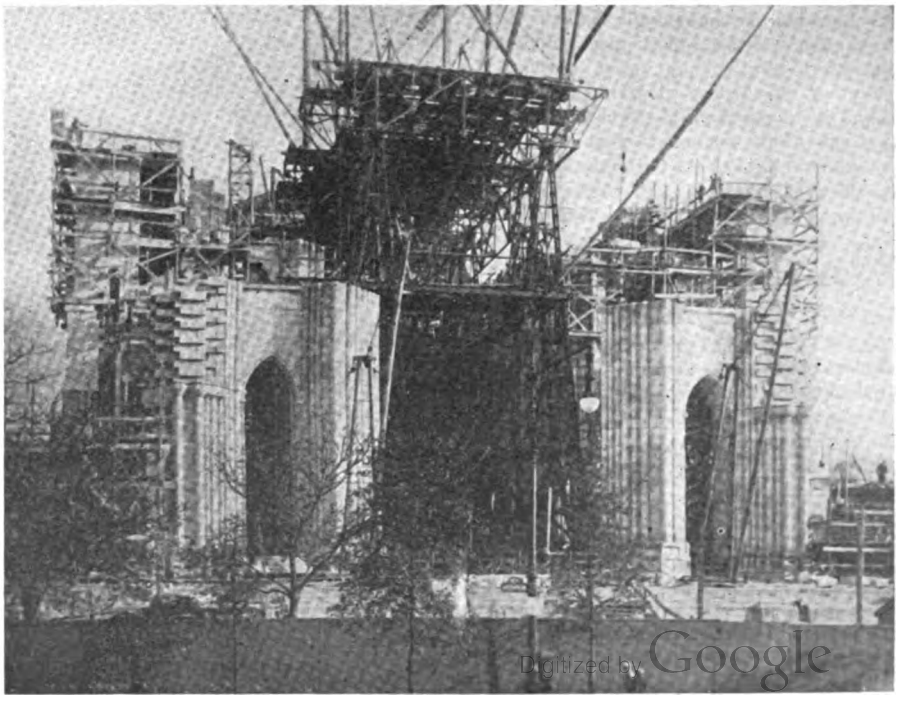
THE million dollar investment of the Young Women's Christian Association has been completed and opened in Los Angeles, California. The front face of the building is brick trimmed with terra cotta and both exterior and interior have been designed to follow Italian-Romanesque style.

Four hundred rooms and suites have been provided above the first floor. On floors 2, 3 and 4 are accommodations for married men and their families and the balance of the building is given over to women's rooms.

This is the largest individual financial transaction ever consummated by the Association, and for that matter, ever consummated by a group of women exclusively from promotion to completion. Stanton, Reed & Hibbard of Los Angeles are the engineers and contractors.

Builders Assn. Asks for Literature

THE Master Builder's Association, Kansas City writes that it has established a library bureau for all classes of construction work, water work, sewer, road work and building projects. For this purpose it needs catalogs and data on building materials, building equipment and machinery and miscellaneous supplies. Manufacturers interesting in placing their literature with this bureau may communicate directly with the Association at Room 244, Railway Exchange Annex, Kansas City, Mo.



PROGRESS is being made on the Cathedral of St. John the Divine. With almost half of the $4,252,000 building fund raised, work is running to schedule. Photo shows temporary steel scaffolding and two arches

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News from the Field



THIS Maryland house has been left high and dry. The Catonsville builder who developed the property intended to move the house but now it is certain it will have to be razed

Builder's Association Needs Executive

THE Master Builder's Association, Atlantic City, requires the services of a competent man to carry on its business affairs and organize the association. In their letter they state that a two-year contract will be given, carrying with it a salary of $5,000 per year. A longer contract with increasing salary may be arranged if satisfactory results are obtained. The communication was received from the Master Builder's Branch, Chamber of Commerce, Atlantic City, N. J.

Foreign Tours

OUR London representatives, 14 Regent St., London, S. W. 1, England, wish to call our readers attention to a new brochure of European tours, available to all. This will contain a number of itineraries ranging from complete European tours to simple day trips graded to meet all tastes. In every case the price will be quoted in dollars.

Any of the tours described can be booked in advance. This method of listing them offers our readers an excellent travel service. Copies will be sent from the office of Building Age and National Builder, 243 West 39th St., New York.

Audience Prefers Simplicity

HEAVY, ornate, gaudy interior decorations make an audience nervous—distract its attention from the play.

This is the belief of Harrison G. Wiseman, prominent New York theatre architect and designer of the new John Golden Theatre.

"The playgoer," he says, "wants to sit in a soothing atmosphere of well harmonized interior decorations. Sharp, drastic colors excite the nervous system and create restlessness. A theatre does not have to be drab or dead, for there are a thousand color schemes of subdued qualities that will please. Heavy, ornate trimmings are now passe. In some theatres they attracted more attention than the play. The audience of today wants to feel the intimacy of a family gathering. This can only be secured through the channels of soft color schemes that breathe warmth, simplicity, charm."



THIS studio received "north light" from four points of the compass. It resolves on a base and so permits its owner, an English artist, to take full advantage of natural light

For Builders

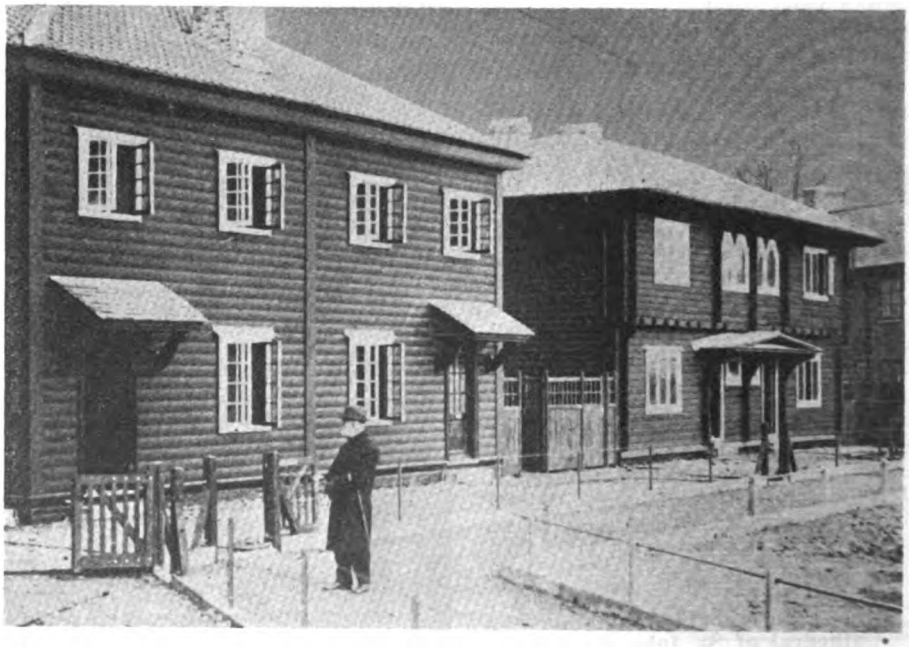
PRACTICAL STRUCTURAL DESIGN, in Timber, Steel and Concrete, By Ernest McCullough, Third Edition Revised and Enlarged. 401 pp. + 14 pp. Index. 224 Figs. in text. Pub. by Scientific Book Corp., New York City. $4.00 postpaid.

This book was written for the use of men whose education did not go as far as High School. No mathematics higher than ordinary arithmetic are used, yet students are prepared to do ninety-five per cent of the work usually done by structural designers in the offices of engineers and architects. It evolved from lessons prepared by the author when he was teaching in evening schools while in private practice. It is especially for self-tutored men.

The first edition appeared in 1917; the second in 1922 with an increase of 15 pages. The new third edition has had additions made in every chapter, as well as many changes. The total number of pages added amounts to 100 exactly. The chapter on Semi-Rigid Frames has been more than doubled and the treatment of Mill Bents is very complete. There is a new chapter in which may be found much useful information on floor loads, methods of calculation, etc.

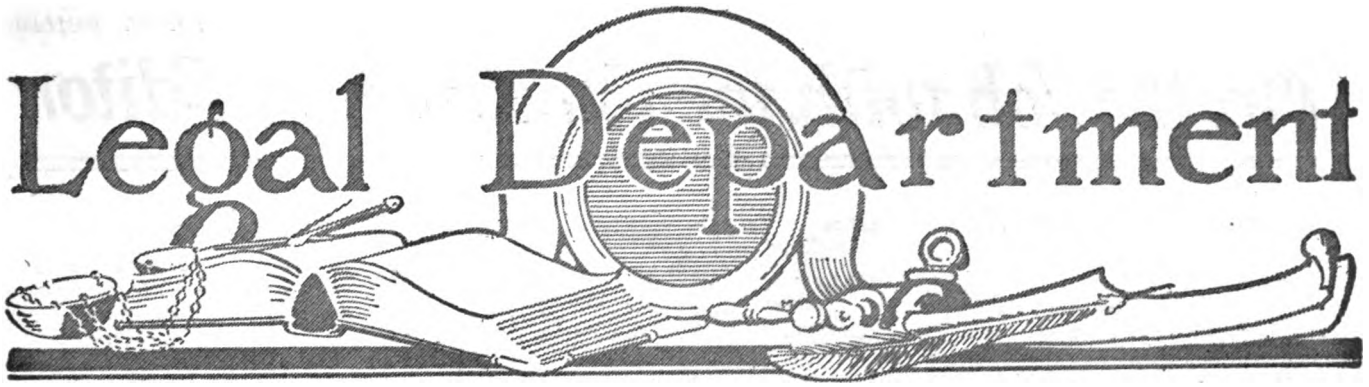
The final chapter is on Reinforced Concrete, and contains much information that every designer will appreciate. This is a book that every practical man can understand because of the very full treatment given to elementary subjects in clear language without algebra or calculus. It shows how to design every part of a building from a floor joist and stone pier to the largest girders and columns.

Copies of this book may be obtained from Building Age and National Builder, Book Dept., 243 West 39th Street, New York.



England tackles the housing problem. About twenty of these homes have been built for workingmen by the London Council on Beacon Estate, Essex

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What is the Liability of Banks?

By Arthur L. H. Street

WHEN an attorney received a check payable to his client, without the client's knowledge or consent, he so altered the check as to make it payable to himself as the client's attorney. He had two accounts in defendant bank, one private and one as attorney. He had no account as attorney for the particular client, plaintiff. The attorney ultimately overdrew his account as attorney, defaulting in payments due plaintiff. In the case of Charleston Paint Company vs. Exchange Banking & Trust Company, 123 Southeastern Reporter, 830, the South Carolina Supreme Court passed upon plaintiff's right to hold the defendant bank liable, and the following is an abstract of that court's conclusions:

A bank receiving trust funds from a trustee is liable to the true owner for the defalcation of the trustee, (1) if the bank violates the terms of the deposit contract, (2) if the bank applies the fund to payment of the trustee's private indebtedness to the bank, or (3) if the bank assists the trustee to misappropriate the fund, actually or constructively knowing that the fraud is being perpetrated. But the bank, though knowing of a trust, may asume, in the absence of the intimation to the contrary, that the trustee will faithfully disburse the fund.

The attorney's act in altering the check in the manner above noted amounted to forgery, making the check void excepting as to holders in due course. The bank in this case was not a holder in due course, because the check bore unmistakable evidence that it had been altered.

Transfer of the check to the bank for deposit in the attorney's account as attorney passed no title, as against the plaintiff, to whom the bank became liable on paying the proceeds over to the attorney in his individual capacity.

DO not let the possibilities of legal tangles interfere with the prosperity of your business. Avoid those steps that may lead to controversy and, more importantly, learn how to keep out of difficulties that may arise through no fault of your own. A word or two, very often, may suffice to guard you against an annoying suit. Our legal editor will gladly aid you in this

If the check was a forged instrument it was void, regardless of the diligence or negligence of the bank in the matter of the discovery of the forgery.

That a bank's contract with its depositors provides that it accepts checks on other banks for collection only does not relieve it of obligation to pass upon the genuineness of checks received for deposit.

When Dealing with Realtors

IN answer to an inquiry from Rhode Island, our correspondent is advised to consult a reputable real estate firm in his city dealing in residential lots in the district where the property lies. If there is a real estate board in the city, the Secretary will no doubt furnish a list of responsible brokers from which a selection can be made.

It is customary to sign an agreement specifying the commission to be paid and the terms upon which the property is to be sold. If it is desired to list the property with more than one broker, care should be taken to see that no listing agreement gives the broker an exclusive right to sell. There are no fees connected with the listing.

Real estate brokers' commissions vary in different cities and according to the price at which property is sold.

Very often property is listed with the broker on the condition that the price is to net the owner a certain amount, and that the broker may have all that he may secure above that figure.

Joint Adventurers

IN accordance with a recent decision handed down by the Michigan Supreme Court, where an owner of lots contracted with a builder for the erection of houses upon them for resale, it being agreed that they should share the profits of the venture, they became partners in such sense as to make the owner of the lots liable with the builder for injury to a third person resulting from negligence on the part of the builder in doing the work defectively. (Keiswetter vs. Rubenstein, 209 North Western Reporter, 154.)

Wrongfully Discharging Architects

THE opinion handed down by the Washington Supreme Court in the case of Gould vs. McCormick, 134 Pacific Reporter, 676, shows the proper basis for awarding damages to an architect who has been wrongfully discharged before completion of his contract services.

In that case it appeared that plaintiffs agreed to draw plans and specifications for a nine-story building and supervise its construction for five per cent of the cost of the building. When the structure was about one-third completed plaintiffs were wrongfully discharged by defendant owner and they sued for compensation.

The court recognized that where an architect or contractor is wrongfully discharged he should ordinarily be permitted to recover for work performed at the contract rate and be allowed such profit, if any, as he would have earned through doing the remainder of the work. The court said:

"In the present case the price fixed in the contract for preparing the plans and specifications and superintending the work of the construction was 5 per cent of the cost of the building. The approximate cost of the building was $325,000. At the time the respondents were discharged, it appears from the evidence that the cost to them of completing the contract would have been $1,500. Prior to this time they had been paid the sum of $8,000. On this basis, then, applying the rule as above stated, there was a balance due of $6,750."

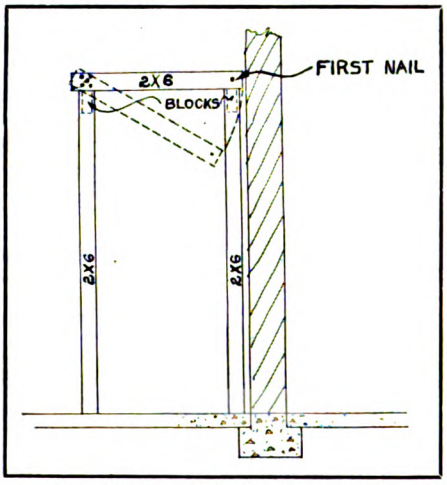
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On the Job with the Construction Editor

Prevent Accidents

THE most common cause for scaffold accidents is incomplete nailing. The mechanic takes a board—in this case it is a ledger board as shown—sticks a nail at one end, and then nails the other end, forgetting to complete the nailing of the end where only one nail has been driven. The scaffold is decked and when the material and men are placed on it, the nail gives away and there is an accident. The dotted lines on the drawing show just what will happen in such cases—the end of the ledger board with only one nail will go down.

There are two ways to guard against such accidents: First, by thoroughly inspecting all the nailing before the scaffolding is loaded; and, second, which is the better way of the two, by nailing blocks under each end of every ledger

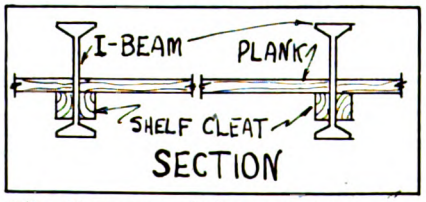


board used in the scaffolding. This will have sufficient reinforcement so that any weak point that may exist will not give away when the load is placed on the scaffolding.—**H. H. S.**

Steadying Steelwork

IT is common practice in these times to use steel freely on practically all types of construction. It has been found that the use of steel in small building is a means of promoting economy and this is a very important factor in all construction work.

In the illustration shown here we see how a system of steel beams was braced



while they were being set into place. The building was a one-story garage building, with steel beams used for supporting the roof joists. The beams were delivered in the job before any of the



lateral bracing, hence they had to be set and braced until the laterals arrived.

As shown in the illustration, they were erected on their columns and the two end beams braced diagonally from the ground. All the intermediate beams however, were braced by running joists from beam to beam instead of bracing them individually. This saved the time of erecting separate diagnal bracing for each row of beams, and served the same purpose.

Pipe Hanger or Support

IN order to carry pipe overhead for road crossings and overhead construction work, etc., the following pipe supports were used with great success and at a very small cost.

The piers are the big cost, as the material and labor will cost about fourteen dollars per pier. For the stand pipe 4 in. second hand pipe serves the purpose. The bolts can be purchased for a small sum and as to the rest of the material required, a good mechanic should be able to select the material from a junk pile, or secure the material second hand from a junk dealer, greatly reducing the cost.

Then again, providing the work is to be only temporary, the cost of setting supports may be greatly reduced in the following manner. Dig a hole about 6 ft. deep and 4 ft. square, filling in about the pipe with broken stone and soil, tamping well as the fill is made. This gives a satisfactory result for temporary work.—**G. L. Anderson.**

Keep Onlookers Away

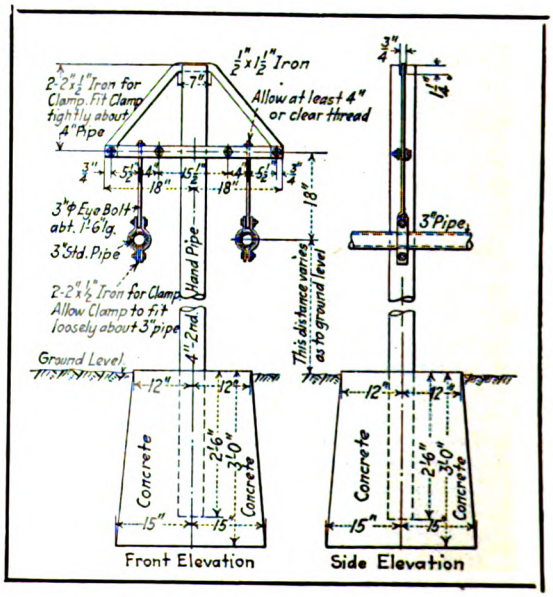
A GOOD many accidents are caused each year by injuries to bystanders or idlers who are always to be found watching construction work. It is no fault of the contractor if one of these persons are injured, yet in case such an event does happen, he is always the subject of a suit for damages.

It has been customary therefore to erect some kind of a barricade to keep the onlookers out of harms way. The problem, then, is how to erect a fence for keeping curiosity seekers away from the job without having such a fence interfere with the workmen or the delivery of materials, and the answer is the kind of an arrangement shown here.

This is a tight fence on the walk side of the job, so that it is impossible to see

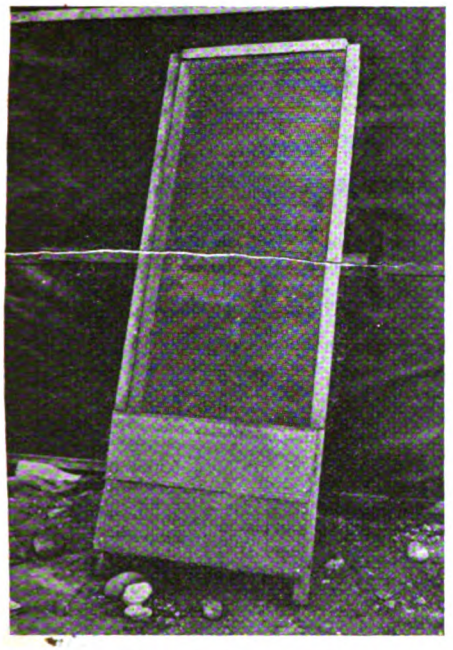


what is going on behind the fence. This will keep the walk clear and free from onlookers since there is nothing to watch and hence no temptation to loiter. At the end of the fence, a couple of loose boards are set up to form rails. They are so arranged that they may be easily taken down in order to permit workmen to pass in and out from behind the fence and to permit the delivery of materials.



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On the Job with the Construction Editor



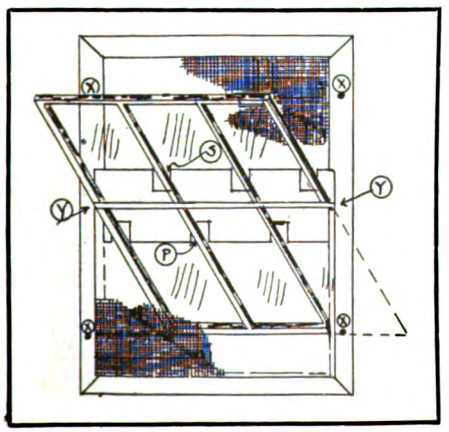
Sand Screen

IN places where the sand used contains large pieces of gravel too heavy for the purpose for which the sand is used a screen is required so that the large particles may be sifted out. Many varieties and types of screens have been built but here is a simple one used where the sand is sifted by throwing it against the screen with a shovel.

It is built with a 2"x4" frame work and the screen is made of fine chicken wire held to the main frame by laths nailed around the edges. At the base of the screen a board or two should be nailed on as it is at this point that the coarser particles are liable to give the screen the most wear.

Screens for Pivoted Sash

A CARPENTER in Peoria ran up against a stone wall when he was asked to screen all the windows in a large plant which was new and fireproof. The window frames were of sheet metal, although the sash were made of wood.



Eventually a plan was devised that worked satisfactorily, giving fresh air as wanted and keeping out insects. The following description will enable some other workman to execute a job of like character.

The sash swings in the frame, bottom outward, by means of the pins (YY) in the center of the sash, entering holes in the metal jamb. Adjustment for extent of opening is provided by means of a rod, ratchet and dog, at the bottom of the sash, not shown by illustration. The screen frames, upper and lower, are located permanently, secured by an old fashioned bolt at center of screen "X."

This bolt is in a metal cylinder or casing, having a spring (coiled) inside the closed end; and is pulled flush into its casing by an extension rod working through an opening in its closed end. The cylinder is long enough to pass through the screen, frame sideways, when by letting go of the end extensions, the bolts will pop into holes provided in the metal casing jamb.

The top screen is notched at the bottom, designated by P, while the bottom screen is notched on top as at S, to avoid or clear the screen frame and panels for glass. The ends S and P are beveled feather edged, to adjust to the glass, when window is partially open.—**L. S. Bonbrake.**

Hanging Doors

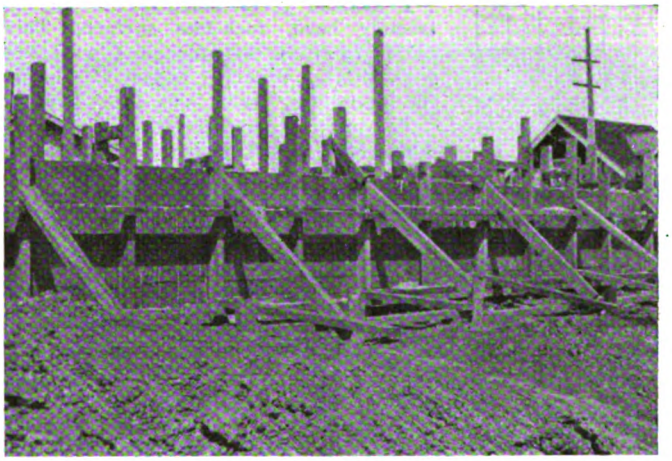
WHETHER two or three butts are used, I have found it a good plan to mark out and cut the jamb for the butts. Take only the top butt apart and screw the parts on door and jamb. Screw the other butts to the door and put the door in position. Slip in the top pin, swing the door around. Any error in marking and cutting can best be corrected now, and the butts will not be bound in the joints.—**A. N. Phillips.**

Formwork for Low Foundations

HERE is a type of formwork especially suitable for concrete foundations where it is not necessary to carry them too far below grade. This system consists of only a simple arrangement of 2"x4"s and boards, as is usually found for this type of work.

The first step in erecting these forms is to set the two lines of stakes which support the bottom sills of the system. Then the sills are set in place and fastened securely to the stakes. After this, the vertical members are erected and then the diagonals.

Now the framework is in place and the form boards may be nailed on. Care should be taken to see that the uprights are truly plumb and held stiffly, and for this purpose a ledger is run across the uprights close to the top of the form. This helps considerably to hold the verticals in a straight line so that the wall will not be wavy.



One of the major precautions to be observed in the erection of this formwork (as in the erection of all formwork) is to take the proper care to see that the whole arrangement is stiff enough to prevent displacement by the concrete as it is poured into the forms. This means that each member in the arrangement must be well nailed or wired before pouring begins or the value of the time-saver is lost.



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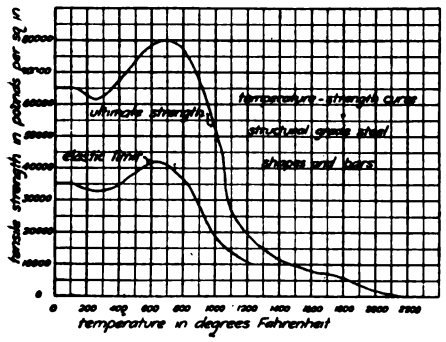
WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

Fire Test for Bar Joist Floor

FOR purposes of determing the fire resisting properties of a typical floor panel built of standard bar joist construction, the Massillon Steel Joist Co.,



Tenth and Belden Sts., Canton, Ohio, prepared a floor panel arrangement in the manner described and accurately determined deflection and recorded temperature under various conditions.

The furnace, 10 ft. 6 in. long by 6 ft. wide and 5 ft. high was specially constructed. Heat was supplied by means of six oil burners located symetrically around the furnace. On the furnace wall five type 8-C Massillon Steel Bar Joists were laid, spaced 16 in. on centers. These were bridged at the top and bottom with 3-32 in. stranded wire. Top of the joist was covered with ⅜ in.—4 lb. ribbed metal lath, covered with a 2 in. concrete slab with a ½ in. finished surface and with ¼ in. temperature bars on 12 in. centers. These bars were laid in both directions.

To the bottom chords of the truss were wired 7-16 in. pencil channels on 12 in. centers. To this 3.4 lb. flat diamond lath was fastened and covered with ¾ in. of ceiling plaster—first coat ¼ in. Portland Cement mixtures, second and third coats standard gypsum plaster.

Deflection of slab and joist was determined by fastening a scale directly at the center of slab while temperatures were recorded by 14 thermometers placed at various points. When these were all installed in place a test panel was loaded to the full design live load of 125 lbs. per sq. in. Then oil burners were fired and the temperature of the furnace gradually raised to about 1800 degrees F., this maintained for a period of 3 hrs. and 40 min.

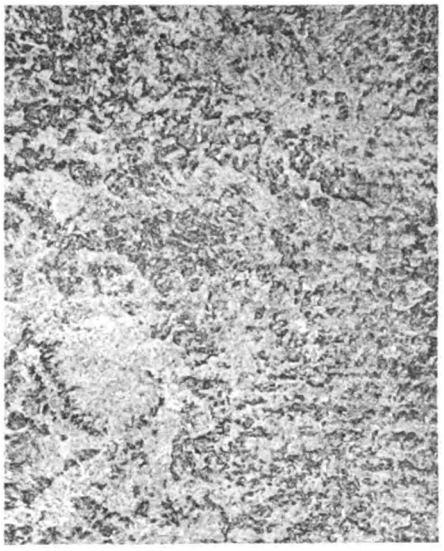
The deflection produced by the rated loads for this type of joist was .25 in. this increasing to .69 in. at the expiration of the four hour heating test.

In conclusion, it is evident that this type of floor construction allows plenty of air circulation with the result that the steel is heated uniformly; no stresses being set up due to unequal expansion of the members.

Hard Surface Plastic Paint

A HIGH contents of pure ground marble gives Marb-L-Cote an extremely hard, rock-like surface. This plastic paint is fireproof and washable with a large covering capacity. One of its outstanding features is durability.

The product comes in white, dry powder packet in 100 lb. bags and is mixed



on the job with water to a consistency of a plastic paint. It bonds with any type of wallboard as well as plaster, concrete, brick, wood and painted walls, applied to a thickness of 1-32 of an in. or more, depending on coarseness of texture desired. In this same respect, covering capacity is dependent upon thickness desired, although the average is from ¾ sq. yd. to 1½ sq. yd. per lb.

Marb-L-Cote is furnished in light colors already mixed and requires no subsequent painting. Textures suggested by the manufacturers are Old English, Caen, Stone, Spanish, Travertine and Early Italian. These textures are obtained by working finish with whisk broom, scraper, brush or fingers. Manufacturers is Marb-L-Cote Co., 604 Wrigley Bldg., Chicago.

Standard Frame for Any Wall

TO provide a standard frame unit for frame walls constructed of standard sheathing, studding, lath and plaster, a type has been developed by the Andersen Lumber Company of Bayport, Minn.

Fig. 1 shows frame No. 101, or No 102, converted to a brick veneer frame with a wide jamb like standard brick frame No. 101. The blind stop may be also set flat with the sheathing.

The other detail, Fig. 2, shows table outside sheathing, standard thickness. In this case the jamb is widened by using 25-32 in. inside ground casing as shown.

Other suggested details, in literature of the company shows stucco on lath with standard 25-32 in. furring—detail of extra inside sheathing with jamb widened 1⅛ in. with ground casing. For studding or extra thick sheathing inside ground casing rabbeted to depth required. For standard wallboard inside wall finish, standard stop moulding as used for furring inside frame. Frame No. 101 is also convertible to a box frame for standard 8 in. tile wall. It is suggested that a jamb liner be attached for 13 in. wall.

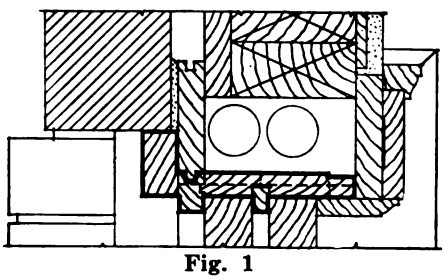


Fig. 1

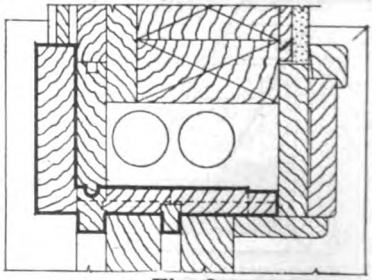


Fig 2

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Nowhere Such A 1-Bag Mixer At Almost Tilter Prices

Nowhere has the contractor ever been able to get a ½ to 1-bag mixer like the Rex 5-S. It just isn't to be had. The Rex 5-S combines the *Rex High Speed Idea* with *long life construction*, and, *It Sells At Almost Tilter Prices.*

Built on THE REX HIGH SPEED IDEA. The skip raises in 7 seconds. Wide drum openings permit faster charging and discharging.

More Batches Per Hour

Large blades pull the batch into the drum as fast as it slides from the skip and rushes it back to the big deep buckets. The buckets hustle it out. *You get more batches per hour—more yards per day—and more jobs completed per year.*

Fast, Easy Controls

Operating is made easy and smooth by automotive clutches, self-locking hand brake, and self-aligning bearings. Every control is at your finger tips, and like all Rex High Speed Mixers, the 5-S is chain driven.

At Almost Tilter Prices

Certified Malleable Parts reduce cumbersome weight and provide greater strength and compactness.



They add years of life.

And with all these advantages—REMEMBER THAT THE REX 5-S SELLS AT ALMOST TILTER PRICES.

You can get any information you want on this mixer or other Rex Mixers and Pavers by checking this coupon. *Mail it today!*

CHAIN BELT COMPANY, Milwaukee, Wisconsin

REX MIXERS

MORE YARDS PER DAY

CHAIN BELT COMPANY
721 Park Street, Milwaukee, Wis.

Check the size Rex in which you are interested and a booklet containing complete information on it will be mailed to you.

- ☐ ½ bag Tilter
- ☐ ½ to 1 bag Rex 5-S
- ☐ 1 bag Rex 7-S
- ☐ 2 to 3 bag Rex 14-S
- ☐ 6 bag Rex 27-E Paver

Name.....

Address.....

City..... *State*.....

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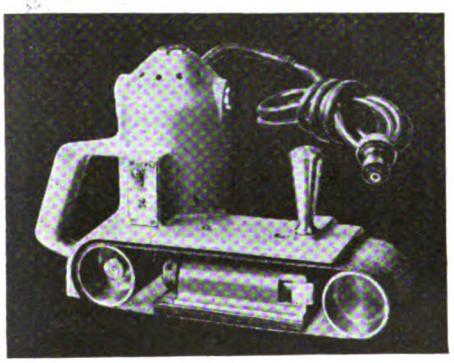
What's New in Materials and Equipment

A Portable Hand Belt Sander

A HAND belt surfacing machine to be known as the Take-About Sander has been announced with a multitude of features to insure smooth and true finishes. A changeable form pad allows surfacing of flat, curved or irregular surfaces and the construction of the machine permits sanding close up to base boards.

Included in its advantages are a automatic belt tightener, ball bearing construction, fully enclosed worm gear drive and a convenient and natural operation like that of a hand plane.

The unit is powered by 1/3 h.p. 110 A.C. or D.C. motor. Belt speed is 1,300 ft. per minute. Equipment includes 6 belts, form pad, switch, 10 ft. of rubber covered conductor cable with unbreakable duplex plug. Weight is 12 lbs. There are many uses for this equipment suggested by the manufacturers, Porter-Cable Machine Co., Syracuse, N. Y. Such jobs as finishing and refinishing

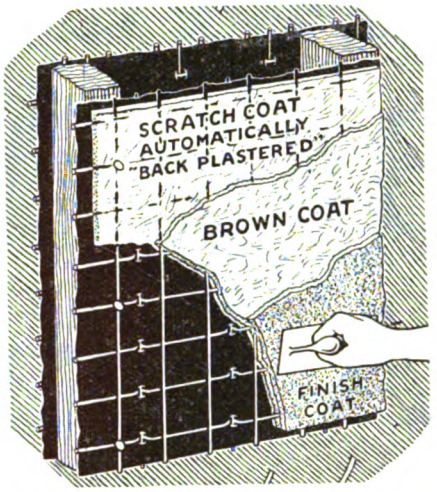


tops and edges of tables, school desks, etc., sanding edges of floors and small alcoves. Cleaning up doors, windows and interior trim, removing tool marks and rubbing and polishing painted surfaces.

To Promote Profitable Remodeling Work

THE overcoating plan is a plan to cover weather worn and unsightly outside walls of practically any type of building with permanent, fire resistent, inexpensive, reinforced stucco. What is known as reinforced overcoating construction is used. This is style "P-Two-Fourteen", a product of a National Steel Fabric Company, Pittsburg, Pa., made of cold drawn steel wire having a tensile strength of from 60,000 to 85,000 pounds per square inch. The wire is galvanized to prevent the deteriorating action of corrosion and rust.

These wires are welded together two inches apart—a spacing sufficiently small to reinforce the stucco and hold it firmly. To this wire mesh is fastened a heavy waterproof paper that allows the stucco to flow around wires, completely covering or embedding them. The presence of this paper also insures proper thickness of the stucco wall. The combined wire mesh and paper is applied directly to siding, clap boards or any other surface that will take nails.

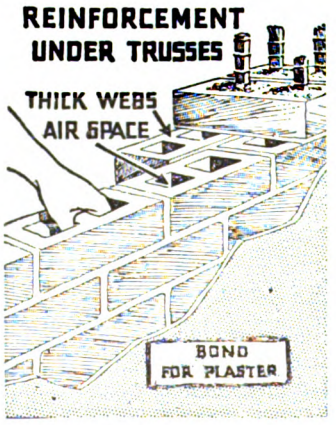


Summing up the advantages of this product, it may be said to combine six building materials in one, viz: Sheathing, building paper, furring, lath, reinforcement and nails. "P-Two-Fourteen" automatically back plasters itself. It is part of the first plastering operation on the front side. What is known as the 1926-27 overcoat plan is operating through local dealers. The promotional plan includes a system of direct mail advertising for the contractor.

New Load Bearing Concrete Tile

A PRECAST hollow concrete building unit has been developed in a size small and easy to handle. The concrete used in its manufacture is mixed to a thoroughly plastic or quaking consistency and contains a high proportion of coarse aggregate. Materials are selected in accordance with the national standards of quality promoting density and strength.

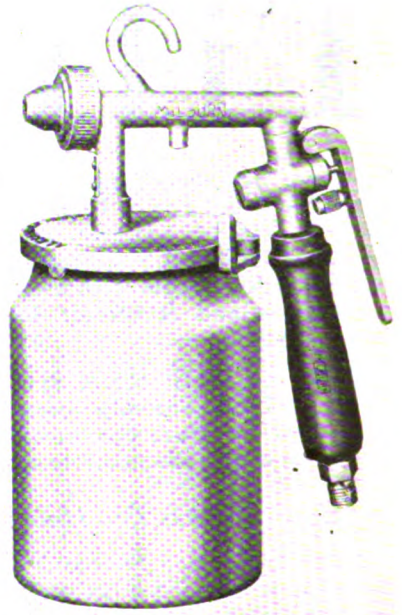
Stone-Tile, the name by which the product is known, is procured from independent licensees in different parts of the country, where it is manufactured under rigid specifications. Each plant is equipped to fill large orders. The service texture is pitted to give an attractive finish to exterior walls and make a firm bond for plaster.



Various sizes and shapes are manufactured to provide a wide range of architectural treatment. Where units are to be used for pilasters, arches, lintels or walls bearing heavy loads they are filled solid and reinforced. It is computed that the average bricklayer can lay from 600 to 1200 of the 6 in. size and from 500 to 900 of the 8 in. size, depending on the nature of the wall. These two sizes are the principal ones used. The ratio of air space in each runs 32%. The manufacturers are National Stone Tile Co., 625 Market Street, San Francisco, Calif.

Easily Operated Paint Spray

PAINT spraying is the economical method of applying paints and varnishes to all sorts of surfaces. In painting any surface, time, material and labor



costs are greatly reduced by the use of substantial spraying equipment.

In the case of the Milburn ease and simplicity of operation are the features. Paint enters a large annular chamber surrounding the air nozzle from which it is atomized and expanded in a venturi-shape. A slight turn of the nozzle regulates the atomization and brings into play a stream of air for dusting purposes.

A pressure of 40 lbs. is usually used, but this can be varied to suit the work. The Milburn paint spray is light in weight and compact. The absence of moving parts eliminates danger of clogging. Manufacturer is the Alexander Milburn Co., 1416 W. Baltimore St., Baltimore, Md. New literature has been prepared on the product.

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FLOORS

Hard-wood, Soft-wood
Open-grain, Close-grain

Dance Floors
Linoleums *Rubber Tile*
Cork Carpet
Cork Tile *Magnesite*
Mastic *Terrazzo*
Cement

ALL FLOORS

HOW to finish them. Where and When and *Why* to use Filler, Varnish, Wax, Shellac, Oil, etc. Covering capacities, Proper methods of cleaning and refinishing. A gold-mine of practical information for Builder, Contractor or Architect.

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Waxes
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What's New in Materials and Equipment

Propeller-Fan Type Unit Heater

THE unit heater is in most respects a new apparatus for industrial heating. It has, however, passed through its experimental stage and is now a recognized type of effective heating equipment.

Roughly, the various types may be put in four classes. First, the brass tube heater with propeller fan; second, the cast iron heater with propeller fan;



third, the steel pipe coils used with high pressure steam and centrifugal fan of multiblade type; fourth, where steam is not available, a special hot air furnace with fan circulation for the air.

The first mentioned, the brass tube heater with propeller fan, is the simplest and very often the most effective. Illustrated is the Breezo-Fin heater, made by the Buffalo Forge Co., Buffalo, N. Y. The heating surface is Aerofin, a copper-finned brass tube coil, light in weight but strong and having high radiating efficiency and low resistance to the fan.

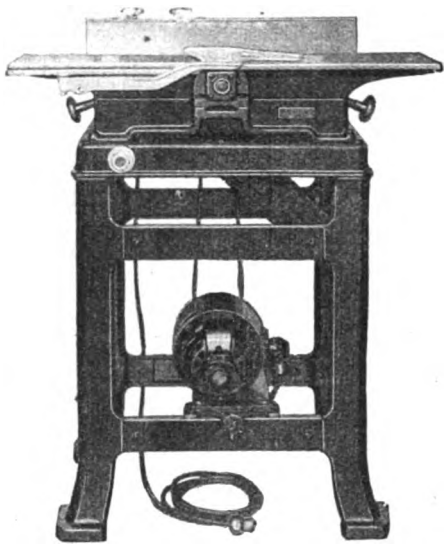
The Fan is the Buffalo Breezo-Fin, the propeller type multiblade fan. These are made entirely of pressed steel, well balanced and free from vibration and noise. Motor is totally enclosed, automatically lubricated and sufficiently large to run efficiently without ventilation. Heaters available in four sizes—18, 24, 36—capacities based on diameter of the fan.

New Development in Jointers

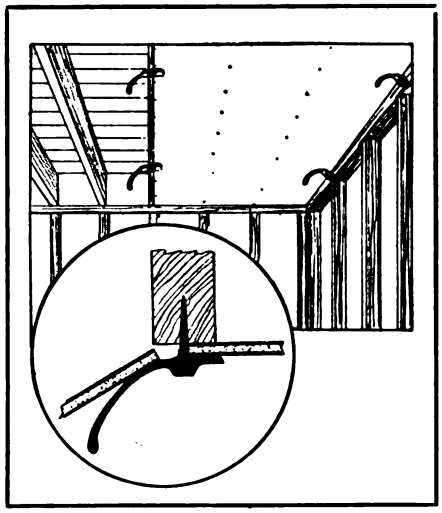
A PRACTICAL floor type of portable electric jointer has been added to the line of woodworking machines manufactured by Heston & Anderson, Fairfield, Iowa. This type was previously made in the portable bench type but in this addition the machine is available for other class of work.

It has a patented safety type of cylinder head fitted with three high speed steel knives. This feature, running in SKF ball bearings, assures accuracy and longevity.

Heavy cast iron tables, 8"x33", are



raised and lowered by handwheels and can be adjusted with absolute accuracy with relation to the head. Back table has a rabbetting groove and the head is covered at all times by an automatic guard. While this equipment is sufficiently light to make machine easily portable, it is rigidly constructed from cast iron and structural steel. Net weight 240 lbs.



Unique Wallboard Hanger

THERE is nothing to assemble nor any difficult mechanism to get out of order in using the new Beaver wallboard hanger. As brought out in the illustration, two or three hangers are applied to the first course of ceiling panels. These are driven at a slant into top plate or ribbon so that the curved part of hanger is far enough away from joist to permit panel to slide easily in place. The workman then stands panel on edge faced to the wall, raises it till the edge strikes the curved shank—then raise opposite edge to about 6 in. from the ceiling and shove the panel in place against hanger pins.

Supporting nails tacked in at the opposite edge support the panels. Or better still, another set of hangers is put in place and then the first panel nailed at leisure and according to instructions covering the particular wallboard.

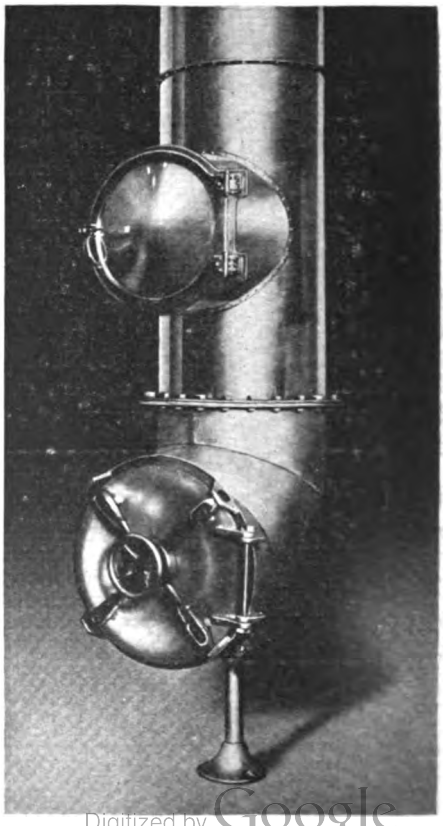
It is easily seen how the second course of panels is put in place, each time supported with wallboard hangers. To remove them the workmen grasps the curved shank and twists, pulling straight down at the same time. A hexagonal pin reams its own hole.

These little devices do away with "T" props, staging, cumbersome scaffold-jacks and similar contrivances. On heavier wallboard two men handle the job easily, eliminating the third workman with a consequent saving in cost. The manufacturer, Beaver Products Co., Inc., Buffalo, N. Y., is offering a set of four wallboard hangers for $1.00.

Introducing Aluminum Laundry Chute

A NEW laundry chute made of 1-16 in. aluminum rolled into cylinders and riveted with aluminum rivets longitudinally with the rivets countersunnk, is announced by Pfaudler Co., of Rochester, N. Y., maker of glass-lined chutes.

The sections are flanged at the ends and are joined by means of aluminum bolts and nuts. The joints are furnished with Pfaudlerite gaskets to prevent leakage. Doors for the depositing of linen on the service floors are made of ⅛ in. solid plate aluminum, slightly dished. The bottom elbow is the standard Pfaudler glass enamel type.



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ATKINS

SILVER STEEL SAWS

A Fine Christmas Present

This is the finest and best Hand Saw the great Atkins factories can produce. It is made from Silver Steel, Atkins exclusive formula, therefore, it will cut faster, stay sharp longer, and outwear any other saw. It is two way taper ground by Atkins patented process and will go thru green or wet lumber with ease and precision.

Buy "Him" This Saw for Christmas



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A
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E. C. ATKINS & CO. INDIANAPOLIS, IND.

Ask For the Four Hundred and Four Hundred and One

The Number Four Hundred can be obtained from your hardware dealer in regular width skew back or in narrow ship pattern skew back. The Four Hundred and One is a straight back saw, furnished in regular width as well as in narrow ship pattern.

THE FINEST ON EARTH

If you want to obtain the best saws that money and skill can produce, buy the above saws fitted with Improved Perfection Handle of rosewood, piano finish, with nickel plated screws—prevents wrist strain.

Send us thirty-five cents in coin or stamps for high grade nail apron; mention this ad and ask for miniature hand saw watch charm, also Saw Sense, the book of facts. Address your letter to our Indianapolis factory.

E. C. ATKINS & COMPANY

ESTABLISHED 1857 THE SILVER STEEL SAW PEOPLE

Machine Knife Factory: **Lancaster, N. Y.**

Home Office and Factory: **Indianapolis, Ind.**

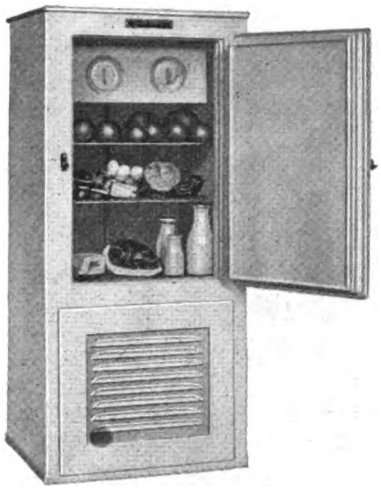
Canadian Factory: **Hamilton, Ont.**

BRANCH HOUSES

Atlanta Chicago Memphis Minneapolis New Orleans New York San Francisco Portland Seattle Vancouver, B. C. Paris, France

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What's New in Materials and Equipment



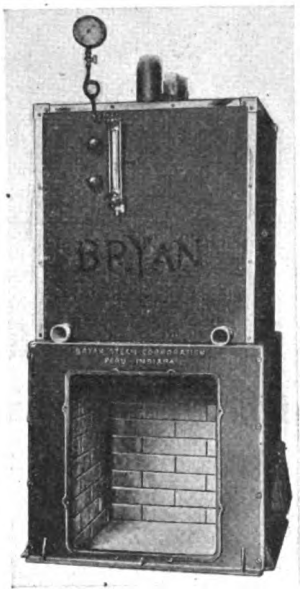
Two Types of Refrigerators

THE new Iroquois Sanitor Cabinet No. 63 is a medium sized unit having a gray porcelain enamelled exterior and lined with one piece porcelain enamel. The cabinet has two good sized provision chambers, with the Iroquois Cooling unit B-1 and compressor C-1, furnishing refrigeration. The cooling unit has two ice trays with capacities for freezing 48 cubes at a time. Where a detachable base is not used, the compressor is placed in the basement or some similarly suitable spot.

The other type (illustrated)—designed particularly for apartments—is an economical unit requiring little space. This type is not only self-contained, but it is completely automatic in operation. It is assembled in a ruggedly built wooden cabinet lined inside with steel. Finish both inside and out is a heavy coat of white enamel. One door has been providedly, this tightly fitted and waterproofed. Freezing capacity of the two trays 32 cubes of ice. Insulation is heavy asphalt-saturated sheeting and cork. Manufacturer of both types is the Iroquois Electric Refrigeration Co., 1600 Arch St., Philadelphia, Pa.

Oil Burning Burner Development

IN the rapidly growing oil burning industry probably the latest contribution is an oil burning boiler. Manufacturers' experiments showed a saving of from 35 to 50% in oil consumption, these figures borne out of owner's experience in providing homes, etc.



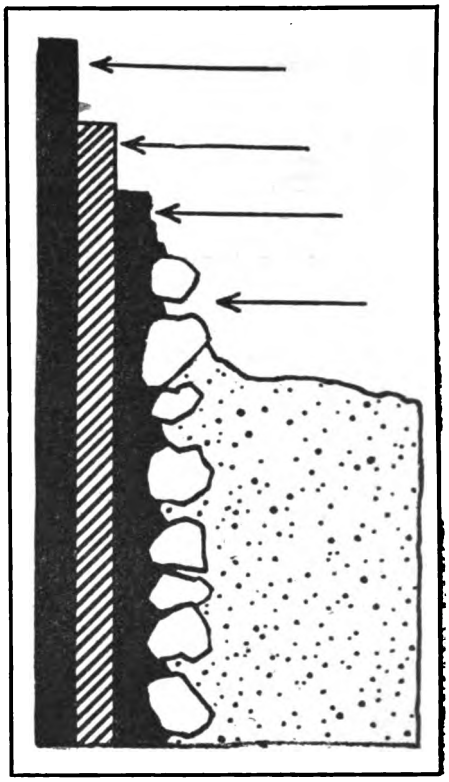
The boiler is built expressly for oil heat, though it is equally well suited to gas burners. The assembly is composed of two main sections—combustion chamber and generator—and will accommodate any standard type domestic oil burner. Combustion chamber, in proportion to the requirements of the complete oil consumption, is built of gray cast iron with an insulation of asbestos to minimize heat loss.

For convenience to owners, boiler also comes equipped with auxiliary hot water coil, this to be inserted in one of the hot water columns. Complete equipment available in three different sizes—16, 24 and 44 tube. Manufacturer is Bryan Steam Corp. of Peru, Indiana.

Rag-Asphalt Stucco Base

A NEW stucco base equally well adapted for new work or for modernizing old buildings is marketed by the Barber Asphalt Co., Philadelphia, Pa. Genasco stucco base is made of high grade rock felt, thoroughly saturated and then coated with asphalt into which granules of calcite are partly imbeded under pressure while the asphalt is hot. Granules of calcite act as a key or anchor for the stucco.

The cross sectional view shown indicates how the stucco is gripped tightly by the granules of calcite. The new base is economical because it is easy to apply and saves stucco. The support



of the stucco depends not only on sticking, but also on the mechanical support of the calcite granules. Genasco Stucco base cannot trap water because water cannot locate between the granules of calcite and freeze and crack the stucco.

Because of the basic materials used in its manufacture the base is windproof, waterproof and a good insulator. The product is furnished in rolls easily handled and applied. Sufficient nails of proper size and quality are furnished for each roll.

Winches for Every Purpose

ON every construction job of every size today, the contractor includes some type of hoisting apparatus as part of the regular building equipment. Winches answer many demands in the



rapid movement of materials and supplies. The size of the job, however, may vary and for the sake of efficiency contractors should use the winch best suited to the work.

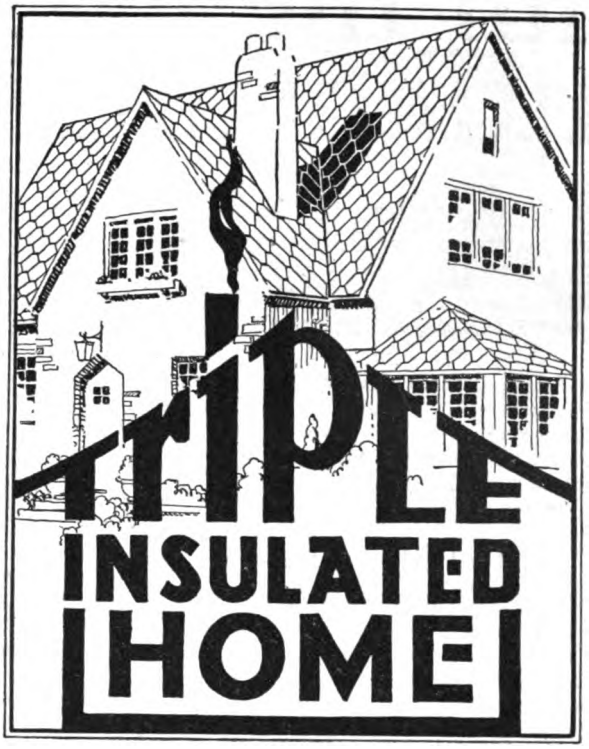
Illustrated are several types adapted to present day needs. One spur gear winch may be had in either the single or double geared type. Another unit—the safety worm-geared winch, is manufactured in six sizes—from 100 to 4,000 lbs. capacities.

These are powered either electrically or by hand. Other units for use in motor trucks take their power from the car. The manufacturers, Stummel Winch and Machine Works, 528-544 22nd St., New York, suggest that the builder give the purpose to which the winch is to be put and the weight of loads handled.

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Triple Insulated Home

—a sound and proven plan that speeds sales and increases profits.





Asbestos Shingles

—each one a slab of indestructible mineral—asbestos. Permanent protection against fire, time, weather and repair bills.

This Trade Mark *is selling homes*

THAT'S why builders reorder. One realtor in the middle west has reordered nine times in one year. Now he standardizes on Triple Insulated Homes because he's found that they make short work of the "For Sale" sign.

Each Triple Insulated Home is certified and trade-marked by Johns-Manville. Prospects can see the trade-mark framed inside the cellar wall—visual proof of hidden value. The Asbestos Shingles, Housline and Improved Asbestocel (briefly described on this page) all mean home-comfort, your most powerful sales point.

Add Johns-Manville's reputation to yours and sell more homes this season. Let us tell you more about the plan.



Housline

—an efficient insulator that keeps heat where it belongs; inside in winter, outside in summer and acts as a sound deadener besides.



Improved Asbestocel

—each 3-foot section of this insulation saves approximately ten shovelfuls of coal per season so it soon pays for itself.

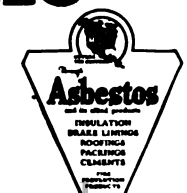


The Triple Insulated Home

A Johns-Manville idea

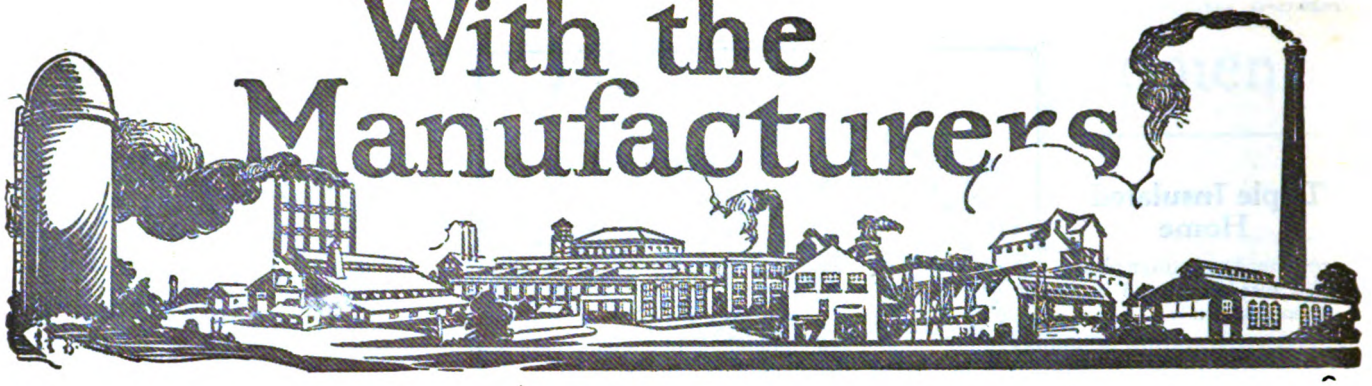
JOHNS-MANVILLE Inc., 292 Madison Ave., at 41st St., New York City

Branches in all large cities For Canada: CANADIAN JOHNS-MANVILLE Co., Ltd., Toronto



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With the Manufacturers



Electrical Display

A DISPLAY floor together with a completely furnished two - story electric home are the features of the new permanent exhibit of the Westinghouse Electric Co. at the Shelburne Hotel, Atlantic City.

Furnishings include electrical appliances of every description. The basement on the other end runs more to industrial display. Laundry equipment occupies a small part and the remainder is given over to such equipment as switches, motors, transformers, etc. All wiring devices are products of the Bryant Electric Company, a Westinghouse subsidiary. Bath room fixtures, kitchen sink and laundry trays are products of the Standard Sanitary Mfg. Co., Pittsburgh, Pa.

A Correction

In the Hart & Cooley advertisement in our October issue the size of the register should have been 8" x 10" instead of 8" x 12" as stated.

New Plant for Concrete Company

A BUILDING to house the steel fabricating and assembly departments, drafting room and general contract engineering offices has been started by the Chain Belt Co., Milwaukee, Wisc. This is the third major unit to be erected on the 59 acre West Milwaukee site and is part of a general plan to gradually move the Milwaukee plant to the larger tract in West Milwaukee.

The new unit will be of steel, brick and glass construction, with approximately 80% of the room and walls in glass. Specifications call for a building 308 by 120 ft., employing approximately 240 tons of steel. Frank B. Chase, Inc., of Chicago is the designer and engineer.

Manufacturer Assumes New Name

OFFICIAL announcement has been made of change in the name of the Wayne Tank and Pump Co. of Ft. Wayne, Indiana, to the Wayne Company. Permission for the change was granted for the reason that the old name was no longer descriptive of all the products made by the company. In addition to the line of gasoline pumps and tanks, the company also manufactures Wayne oil burners, water softeners and electric refrigerators. The change in no way effects the business status or policies of the company, now going into its 36th year.

Steel Men Discuss Fireproofing

THE fourth annual convention of the American Institute Steel Construction held at White Sulphur Springs, West Virginia, October 26th to 30th, was marked by a decision to embark upon a new move to lessen fire hazards in office buildings and other large commercial structures. The standard specifications for such fireproofing will be formulated by the Institute during the coming year.

"Up to the present time," said Lee H. Miller, Chief Engineer of the Institute, "it has been customary to rate in accordance with their thickness the insulating properties of materials used to protect columns and girders from high temperatures. Recent investigations, however, have indicated that the nature of the surface of the insulation has an important bearing upon the insulating qualities."

Professor C. R. Young, of the University of Toronto, told the convention that unreasonable restrictions included in many municipal building codes penalize the competent engineer and result in unnecessarily high costs which must be borne by the public. Mr. Young cited the fact that Philadelphia fixes the live load for the floors of office buildings at 100 lbs. per sq. ft., while the Chicago code permits a live load of only 50 lbs. According to the speaker, the only apparent reason for the divergence is the difference in civic temperament.

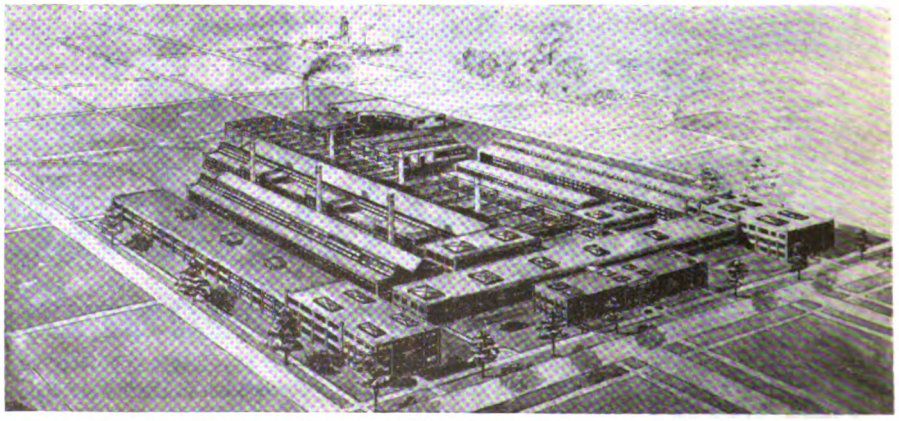
The Institute has already taken steps to cut down the economic waste in conflicting building codes and the ill-advised selection of building materials. Mr. Chas. F. Abbott, Executive Director, announced further progress in the country-wide adoption of the Institute's standard specification

Addresses of welcome were delivered by J. L. Kimbrough, President, and C. Edwin Michael, Second Vice President. W. M. Wood of the Mississippi Valley Structural Steel Company, Decatur, Illinois, was elected President of the Institute to succeed J. L. Kimbrough of the Indiana Bridge Co., Muncie, Indiana, who resigned because of the pressure of private affairs. C. Edwin Michael, of the Virginia Bridge & Iron Co., Roanoke, Virginia, was elected First Vice President.

C. M. Denise of the McClintic-Marshall Co., Pittsburgh, Pa., was elected Second Vice President, and George E. Pistor, of the Hay Foundry & Iron Work Works, New York City, was elected Treasurer. H. A. Fitch of the Kansas City Structural Steel Co., Kansas City, Kans., was elected as the new member of the Board of Directors.

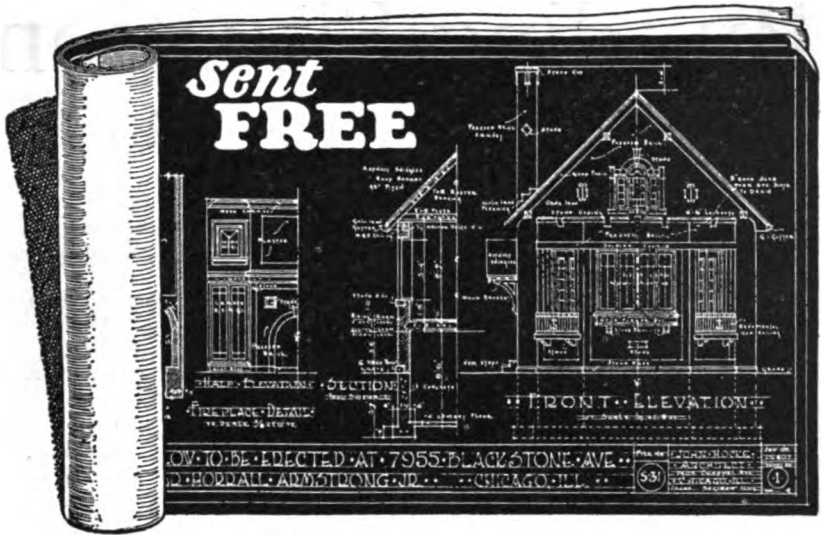
New Warehouse for Metal Lath Co.

TO give the dealers throughout the State of Michigan quicker and better service, Sykes Metal Lath Company has established a new warehouse at Russel Street and Boulevard, Detroit. Offices for this are at 425 Fairwell Building, under the charge of Mr. A. L. Peterson.



New Plant for Chain Belt Co., at West Milwaukee, Wis.

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Mail the coupon for Blue Print Plans and 24-page Book:

"How to Read Blue Prints



Blue Prints are interesting to every man in the building trades. And more! They are the key to every builder's success. For until you can read and understand blue prints you will probably have to be satisfied with only a scale wage. The man who can read blue prints can become foreman, superintendent, or have a business of his own. To help every man who really wants to make money and get ahead in building, Chicago Technical School for Builders offers absolutely *free* these Blue Print Plans and a 24-page book, "How to Read Blue Prints."

You Can Become a Building Expert

Plan Reading. Every man who has got very far ahead in any building trade can read blue prints. No man can expect to be a first rate foreman or superintendent until he knows what every line on a plan means and how to lay out and direct work from the architect's plans. By the Chicago Tech. Method you quickly learn to read any plans as easily as you read these words.

Estimating. Of course a man who wants to be a contractor or to hold a big job in a contracting organization must know how to figure costs of labor, material, and everything else that goes into any kind of building. The Chicago Tech. Course covers every detail of this important branch —shows you just how it is done from actual blue print plans.

Superintending. How to hire and direct men, how to keep track of every detail of construction as it goes on, how to get the work done in the least time at the lowest cost is also fully covered in the Chicago Tech. Builders' Course.

Also special courses in Architectural Drafting for builders, taught by practical men. These explained in Special Catalog "D" sent on request.

What this book is

This book is written by an expert . . . a practical builder who knows the game from top to bottom. It tells how different materials are shown on blue prints, how "sections" and "elevations" are shown on plans, how to lay out a building from a plan, how to take off quantities . . . and all the other interesting and important facts regarding blue prints. The book is as easy to read as your newspaper . . . written in plain, everyday English that everyone can understand. "How to Read Blue Prints" will be mighty helpful to you. Aside from the real help it gives you it will show you how clear and plain and easy the Chicago Technical Builders Course is . . . how quickly you can learn in your spare time . . . at home . . . to become a building expert.

Learn at Home to make more money

For 25 years the Chicago Tech. School for Builders has been training men to advance and make more money in building. Hundreds of successful men, superintendents and contractors, owe their success to their Chicago Tech. training. We train you by mail . . . in your spare time . . . at home.

Send the Coupon ... Now

With the free Blue Print Plans and our book, "How to Read Blue Prints," we will send you another book . . . also sent absolutely *free.* It tells all about the Chicago Tech. Builders' Course . . . directed by practical building experts . . . tells what others say this course has done for them . . . shows pictures and gives all the facts about our method of training men . . . quickly . . . for the jobs that pay most money. This may be your golden opportunity. It costs you nothing to find out all about it. So send the coupon in *now* . . . for the *free* plans and books.

If You Live in or Near Chicago

Visit our School for Builders, open day or evening. 500 carpenters and builders attend each year. You can get the same training *at home,* by mail. Same plans; same lessons; same instructors. The Coupon brings all facts *Free.*

Mail the Coupon—NOW

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Dept. W-89, Chicago Tech. Bldg.,
118 East 28th St., Chicago, Ill.

Please send me your Free Books and Blue Prints for men in the Building Trades. Send postpaid to my address below. It is understood that no salesman will call on me. [Write or print name plainly]

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Review of Building Situation

First Ten Months of 1926 6% Above Same Period

DURING the past ten months, construction in 37 states east of the Rocky mountains has reached $5,325,506,400, according to F. W. Dodge Corp. This shows a 6% increase over the corresponding period of 1925. For October alone contracts fell slightly below September and October last. Of the total, $515,726,600, 44% was contributed by residental work. Public works followed with 20%; commercial 12%; industrial 9% and educational 4%. In the field of new work, contemplated, the October total exceeded September by 3% but fell below last October.

New England District

Construction started amounted to $31,424,200, a total below the month previous and October, 1925. Residential led with 61%. Contemplated new work exceeded September by 55% and reached a total $52,265,300.

New York District

Of the $123,553,900 in contracts reported, residential commanded 64%. Contemplated projects exceeded September by 5% but fell below October last. For the past ten months $1,430,529,400 worth of new construction was reported. This gained 16% over the first ten months of 1925.

Pittsburgh District

The contract total, showing a decline from September, 1926 and from October, 1925, gave public works 41% of the volume and residential 29%. New work planned was 17% over September.

The Middle West District

The October total exceeded the same month last year by 35% and September, 1926 by 70%. 38% went for residential. Another gain was represented in contemplated construction—7% over the previous month. An increase of 10% over the corresponding period of 1925 was computed in the $1,387,787,300 contract total for the first ten months.

Reporting Districts

New England District: New England States.

New York District: New York State and Northern New Jersey.

Mid-Atlantic District: Eastern Pa., Southern N. J., Md., Del., D. of C., Va.

Pittsburgh, Dist.: Western Pa., W. Va., Ohio, Ky.

Middle West District: Ill., Ind., Iowa, Wis., Mich., Mo., Kan., Neb., Okla.

Northern West District: Minn., N. and S. Dak., and Northern Mich.

South Atlantic District: N. and S. Car., Ga., Fla., Ala., Miss., Tenn., Ark., and La.

Gulf District: Texas.

Mid-Atlantic District

While the October volume fell 9% below September, it showed a correspondingly larger increase over October, 1925. Contemplated construction projects total $57,658,000. The January—October period reached $545,705,400—14% in excess of the same ten months of last year.

North West District

This volume ran 7% over September and 41% over October last. New work planned showed decreases from these same comparative months. For the first ten months, the volume was $93,408,300—11% above the same 1925 period.

South Atlantic District

Volume fell below September, 1926 and October, 1925. Residential commanded 32%. First ten months total fell slightly below the January-October period, 1925.

Gulf District

Construction contracts showed an increase of 53% over the same month of last year. Almost half of the volume was contributed by residential. New work increased 65% over October last and 5% over September, 1926. An increase of 28% for the first ten months was reported in the $201,810,300 total.

Record of October, 1926, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings .	$3,820,900	$8,575,700	$15,717,500	$4,027,300	$20,223,900	$1,043,900	$7,810,000	$2,382,200	$63,601,400
Educational Buildings .	1,575,500	4,625,200	2,133,800	2,722,100	9,075,000	395,500	2,549,000	490,600	23,566,700
Hospitals, etc	422,000	1,819,600	1,147,100	1,386,600	3,423,700	158,000	1,782,200	144,300	10,283,500
Industrial Buildings ..	1,938,600	5,870,700	4,100,900	5,682,200	23,973,400	950,000	3,223,800	726,000	46,465,600
Military and Naval...	10,000	29,800	95,000	.....	110,000	.....	.....	.....	244,800
Public Buildings	81,200	798,000	496,900	425,200	865,800	2,200	688,800	923,000	4,281,100
Public Works	2,941,400	11,712,000	7,147,500	24,023,200	38,328,400	3,574,200	12,785,300	3,244,600	103,756,600
Religious & Memorial..	550,000	4,230,000	2,338,800	1,732,400	3,363,200	75,000	1,764,600	507,000	14,561,000
Residential Buildings .	19,091,800	79,024,900	19,148,500	17,114,300	65,862,800	3,409,000	15,330,500	7,811,800	226,793,600
Social & Recreational.	992,800	6,868,000	4,591,800	1,170,000	6,037,600	168,500	2,212,100	131,500	22,172,300
Total	$31,424,200	$123,553,900	$56,917,800	$58,283,300	$171,263,800	$9,776,300	$48,146,300	$16,361,000	$515,726,600

Building Projects Contemplated, October, 1926

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North-West District	South Atlantic District	Gulf District	Totals
Commercial Buildings .	$5,071,400	$11,292,500	$3,968,000	$8,706,300	$26,506,900	$1,669,900	$12,053,600	$3,044,000	$72,312,600
Educational Buildings.	2,448,500	2,892,500	2,622,800	3,902,200	9,282,000	941,500	2,320,900	434,100	24,844,500
Hospitals etc.	500,000	2,415,000	1,983,000	3,112,000	3,759,500	71,000	1,360,500	75,000	13,326,000
Industrial Buildings ..	3,916,100	5,932,900	2,833,500	5,814,500	13,956,200	1,386,000	5,134,800	3,781,000	42,755,000
Military and Naval...	25,000	63,000	120,000	.....	60,000	.....	.....	.....	268,000
Public Buildings	329,000	606,900	166,000	335,500	2,712,000	.....	356,600	145,000	4,651,000
Public Works	16,382,500	34,851,900	6,845,000	15,453,800	33,453,400	2,149,500	16,594,900	2,605,000	128,452,000
Religious & Memorial.	869,000	1,003,000	2,061,000	1,520,500	2,263,500	247,200	1,290,300	495,500	9,750,000
Residential Buildings .	21,381,300	118,781,600	35,050,700	23,118,300	81,507,800	3,760,700	22,337,400	8,799,300	314,737,100
Social & Recreational.	1,292,500	4,403,000	2,008,000	3,117,700	11,781,000	666,500	2,471,500	523,500	26,263,700
Total	$52,265,300	$182,242,300	$57,658,000	$65,080,800	$185,398,300	$10,892,300	$63,920,500	$19,902,400	$637,359,000

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for Economical Transportation

CHEVROLET

A Rugged, Dependable 1-Ton Truck $495

f.o.b. Flint Mich

Remember—this amazing low price includes every basic automotive improvement developed by engineers during the last twelve years. Remember too, that Chevrolet alone offers them in a one-ton chassis for $495.

That's why the Chevrolet One-Ton Truck has won a world-wide reputation for unfailing performance, economical operation and slow depreciation, combined with low first price.

CHEVROLET MOTOR COMPANY, DETROIT, MICH.
Division of General Motors Corporation

Quality Features found only in Chevrolet at these Low Prices

Easy gear shifting, with 3-speed control. Disc-clutch of latest improved design.

Valve-in-head motor that delivers more power and miles per gallon than any other truck engine of equal size.

Positive motor lubrication by a combined pump and splash system.

Positive cooling in all weather by a water pump and extra-large Harrison radiator.

Positive, reliable, semi-reversible steering control.

Extra-large, equalized brakes —12⅜-inch diameter drums.

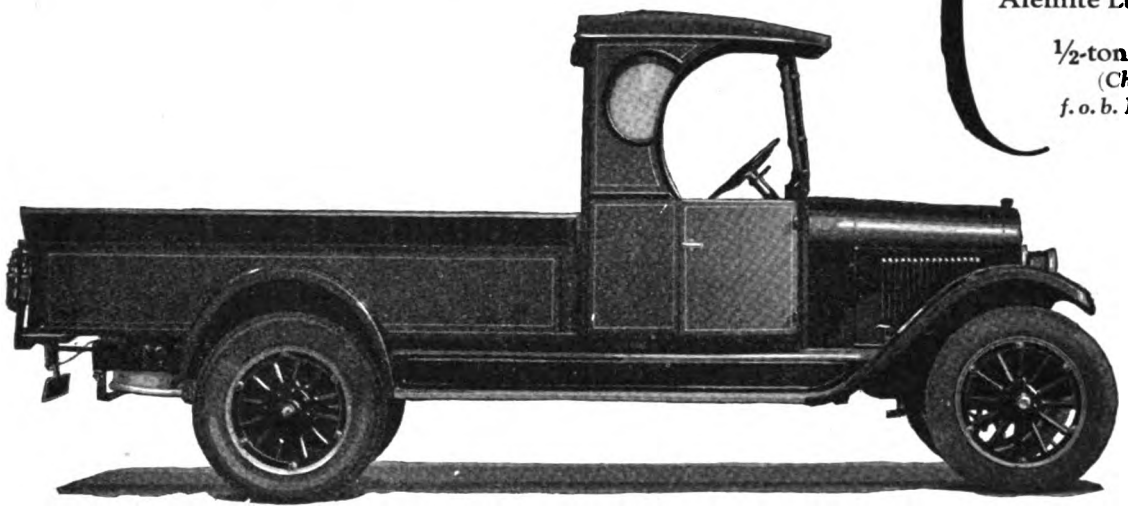
Big, oversize rear axle with spiral-cut, bevel gears.

Semi-elliptic steel springs.

Full length, 177-inch, deep channel steel frame, rigidly braced.

Alemite Lubrication.

½-ton Chassis $375
(*Chassis Only*)
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World's Largest Builder of Gear-shift Cars

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USEFUL CATALOGS



Copper Bearing Steel resists corrosion. This is the title of a treatise compiled by Robt. D. Snodgrass, consulting engineer. It includes figures and photographs showing the rust resisting properties of steel containing a percentage of copper. The material is in a 16 pp. booklet (No. 679) that may be obtained from the Truscon Steel Co., Youngstown, Ohio.

Waterproof Brick Stains and woodwork tints have now been combined by Samuel Cabot, Inc., 141 Milk St., Boston, Mass., to form a new product—Cabot's Collopakes. These are not paints and form no hard coating. They are more fluid than paint, flow on the surface, and cost about one-third less. Moreover, they are artistic, durable and waterproof. Their use include stucco and concrete coloring, waterproofing for brick work and for woodwork. A new color card has been prepared by the manufacturers.

Metal Weatherstripping improves comfort and safeguards health at considerably less fuel expense. These considerations are described in the 1926 Ceco catalog. Practical installation details in color as well as many installations and testimonials are included. Publishers are Ceco Weatherproof Co., 1920 S. 52nd Ave., Chicago.

Chimney-Fed Incinerators for apartments, residences, hospitals, schools and institutions, are comprehensively treated within a catalog by that name carrying the A. I. A. File No. 35j41. The display is unusually good with complete sections showing installations and details. The Kernerator is manufactured by the Kerner Incinerator Co., Milwaukee, Wisc.

Concrete Masonry Houses for town and country embody features of safety, economy, fire resistance and freedom from upkeep. These advantages obviously depend largely upon the use of permanent fire-resistive construction. The same qualities of concrete that are ordinarily associated with great bridges, highways, dams and large buildings are now assuming an added meaning—the suggestion of distinctive homes, substantial, dignified and artistic. These are the thoughts contained in a new catalog of the Portland Cement Assn., Chicago, entitled "Town and Country Houses of Concrete Masonry." Many distinctive concrete masonry homes are shown, some built of surface structural units, others showing the possibilities of Portland Cement stucco with its endless variety of color and finish textures.

Hot Water Tanks based on the Aquatherm principle give an immediate supply of hot water directly from the heater as long as the faucet remains open. This advantage is taken up in the new booklet of the Dahlquist Mfg. Co., 30 West Third St., Boston, Mass.

Unit Heaters play an important part in industrial heating. This apparatus has now passed through the experimental stage and emerged as a recognized and approved type. Several different methods are taken up in the new Buffalo Unit Heater Catalog No. 466. Manufacturers: Buffalo Forge Company, Buffalo, N. Y.

MANUFACTURERS catalogs as they are published today are more than sales literature. Technical data are included that represen considerable research and compilation. They merit places in your library.

Floor Surfacing Machines cut the builders' payroll by eliminating the old method of scraping floors by hand. The American Universal boasts that it replaces six men through its mechanical efficiency. The progressive builder not only adds to his profits, but can also keep his best men busy during the dull months. New literature of the manufacturers, American Floor Surfacing Machine Co., 600 S. St. Clair St., Toledo, O., discusses these important factors.

Carpenter's Tools carrying a substantial trade mark of the James Swan Co., Seymour, Conn., are in use everywhere. The new illustrated catalog and price list of the company contains the standard line as well as numerous up-to-date additions.

Boilers for oil burning equipment are closely following the success of the oil burner itself. "The Choice of Hundreds of Contractors" is the title of an attractive broadside in color describing International Economy boilers. Publishers, International Heater Co., Utica, N. Y.

Combination Sink Faucets are meeting with increasing favor. They deliver hot, cold or temperate water through a single spout or through either spout or spray. One combination, a soap dish and swing faucet included in the new Mueller folder, is of particular interest. Folder is published by Mueller Co., Decatur, Ill.

Steel Bathroom Cabinets are a modern product and available in many types. To protect his reputation as a purchaser of reliable products the builder should consider the quality of the steel cabinets that he buys. Sunbrite steel bathroom cabinets are of reputed worth—they are made of full finished furniture steel, electrically welded. A lacquer finish adds a durable, non-chipping surface. These features are described in a 16-pp. booklet just prepared by the manufacturer, the Federal Metal Products Co., 1440 East 32nd St., Cleveland, Ohio.

Plumbing and Hot Water Heating Equipment cut to fit and shipped direct to the factory may be installed by the builder. A discussion of products, with prices, is had in the new Hardin-Lavin Co. catalog, issued from the Company offices at 121-39 W. Pershing Rd., Chicago.

Steel Windows, known by the trade name of Bayley-Springfield, are illustrated with photographs and details in an elaborate catalog just received. It has been especially compiled for the builder's file, and may be had from The William Bayley Co., Springfield, O.

Doorway Design and Interior Decoration as found in Moorish architecture are discussed in the May issue of "Door-Ways," the house organ of Richards-Wilcox Mfg. Co., Aurora, Ill.

Pebbled Dash and Stucco Finishes may be given added beauty by the use of Vicro. Detailed description of this product may be had by addressing The Central Commercial Co., 332 S. Michigan Blvd., Chicago.

Engines, Hoists and Pumps together with combination outfits are taken up in "Novo Hoisting Handbook." Installation photographs and installation details, with practical tables for various types comprise the contents. Novo Engine Co., Lansing, Mich.

Stripper Hand Block Machine as well as other types of tile and automatic block machines are dealt with in a comprehensive manner in the new mailing literature of The Besser Sales Co., Monadnock Bldg., Chicago, manufacturers of the Besser line.

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Typical houses built and sold by E. J. Andrews, Cleveland.



They make and hold friends for you

"I use all "Standard" Plumbing Fixtures," says E. J. Andrews, well-known builder of fine homes in Cleveland, "because many of those who purchase my houses are personal friends, and I want them to be absolutely satisfied."



YOU DO more than assure the buyers of your houses satisfaction when you use *all* "Standard" Plumbing Fixtures. You save yourself a vast amount of time, bother, and uncertainty.

You merely turn to one catalogue when planning the Plumbing features of your houses. There you find everything from Laundry Trays to massive Built-in Baths. All manufactured completely by one concern—all of the selfsame quality, whether in Enameled Ware, Vitreous China, or Brass. All backed by the same responsibility—and readily available through your Plumbing contractor.

Write for "Standard" Catalogue.

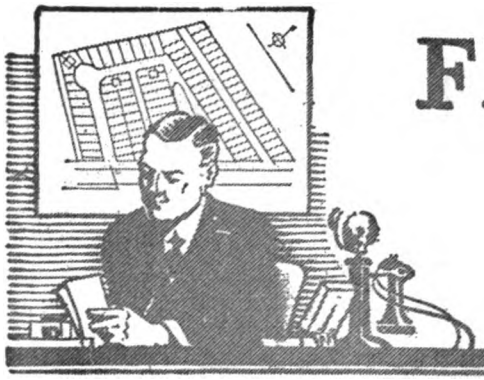
Standard Sanitary Mfg. Co.
PITTSBURGH



"Standard" PLUMBING FIXTURES

Your specifications, prepared this way by "Standard" Promotion men, will insure bids for exactly the Plumbing Fixtures wanted for your houses.

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FINANCE and REAL ESTATE

Helpful Data for the Builder Who Builds to Sell

Financing and Standard Building Codes

By John M. Gries

Chief Division of Building & Housing, U. S. Dept. of Com.

ORDINARILY we think of differences in building costs among various cities as due to wage scales, efficiency of management and labor, and prices of materials. But there is a differential established in the varying requirements of building regulations that may well be investigated by organizations which are interested in seeing their home cities grow.

Building codes lay down conditions under which several billion dollars' worth of new buildings are constructed each year. When they are wisely drawn and administered, they protect public safety and health, and reduce fire hazards. When they are not wisely drawn, they usually not only fail in their original purpose but add unnecessarily to the cost of building.

This affects our pocket-books directly, and tends to discourage new building. It keeps many persons from living in modern dwellings or working in modern buildings.

We have for example, "orphan codes," containing a patch-work of requirements copied from other codes which in turn have taken them from others until the original source is unknown. Many of their requirements prevent economies that have long since been made possible by advances in the art of building.

Some, which maye have been copied innocently enough, were first framed, it is sad to relate, by men who knew exactly how they wanted to state certain passages in order to obtain advantages over some competitor. Other codes have grown from small beginnings and their arrangement may reflect not only the present organization of the city government but preceding forms.

Parallel with advances in the art of building which have made possible new economies in construction tests made under the United States Bureau of Standards, and other engineering tests, have given a more accurate knowledge than was formerly possessed as to amounts of loads and stresses that various building materials may be safely subjected to.

Until two or three years ago plumbing requirements had to be framed largely by rule-of-thumb methods, as there had never been real comprehensive studies of what goes on in pipes with an intermittent flow of water. But at the request of the Department of Commerce subcommittee on Plumbing Codes, the Bureau of Standards undertook a series of tests extending over more than two years.

With the results in hand, the subcommittee was able to work out for the first time a set of requirements which assure sanitary installations, without unreasonable allowance for unknown factors, and without the risks which used to accompany some of the cheaper installations in house drainage systems.

IT is encouraging that in 1925 the subcommittee's work on plumbing was recognized in laws of 10 States, a number of them using its list of twenty-one principles specifying results, without statewide adoption of the suggested detailed provisions for securing them.

More than 400 cities in the United States have adopted building codes regulating the construction, equipment and occupancy of buildings and other structures.

Wide variations found by the Department in existing building codes were cited as follows:

1. As to minimum thickness of brick walls in the first story of two-story buildings, the requirements were found to be anywhere from eight to sixteen inches. In other words, if, as was eventually determined by tests carried out by the Bureau of Standards, a reasonably well-built 8-inch wall would provide for health and safety, then the amount of material required by the more exacting codes could be reduced by one-fourth or one-half, which would mean a great economy in building.

2. As to strength of floors, the codes were found to require the first floor of dwellings to be designed with sufficient strength to withstand minimum floor loads ranging from 25 to 100 pounds per square foot.

FOR upper floors of office building allowance ranged from 40 to 150 pounds per square foot. Other types of buildings had similar variations. Obviously safety was being disregarded in some instances or an unecessary amount of building materials and labor was being required in others.

3. Stress requirements for concrete columns showed wide variation. For greatest permissible stress for direct compression on columns of concrete reinforced with spirals the codes varied from 500 to 900 pounds per square inch.

Progress in the art of placing concrete has surely advanced beyond the point where a difference of nearly 100 per cent in permissible stress can be considered reasonable.

4. As to plumbing regulations: There are many cities in which 4-inch vertical soil pipes are the smallest allowed in dwelling construction. The 3-inch pipe was found to be more satisfactory for ordinary dwellings from a sanitary point of view and it is accommodated very much more easily in a stud partition or wall of a house.

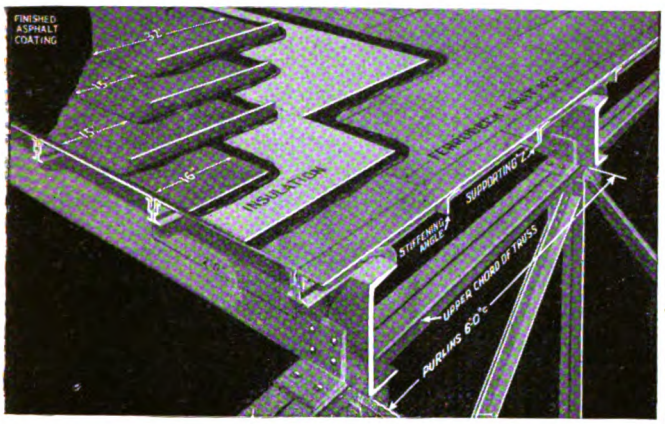
5. Allowable compression for wood materials is a subject which the Department is now studying. The National Lumber Manufacturers' Association finds in 117 codes that allowable compression parallel to grain in short columns of dense

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(STEELDECK ROOFS)

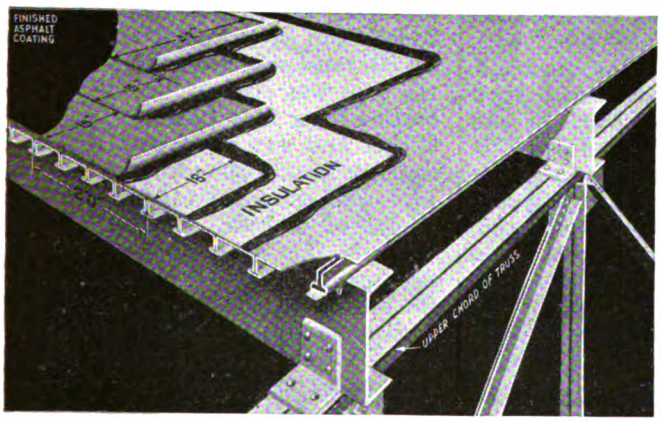
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INSULATED & WATERPROOFED

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Douglas fir is given all the way from 1600 to 100 pounds per square inch. Which is right and which is wrong? Only competent engineering investigation can decide. This has been carried on for some time at the Forest Products Laboratory of the Department of Agriculture and the results are being used in a report soon to be issued by the Department of Commerce Building Code Committee on allowable stresses in timber, steel, etc.

A STUDY of building codes has been made by a special committee appointed by the Department of Commerce, with a view to drafting a recommended uniform code that would steer a middle course and, while making ample provision for safety, would lay down requirements not in excess of what engineering tests have shown to be sufficient.

The committee has worked with the co-operation of building officials, architects, engineers, realtors, builders, material manufacturers, and other agencies and groups concerned with building standards, and has made six recommendations in six published reports.

Uniformity in building codes is desirable in these respects:

1. Technical structural requirements may be practically uniform except in places subject to special hazard from earthquakes or tornadoes. A steel column of known grade is still a steel column whether in Portland, Maine, or in Portland, Oregon. There is no apparent reason why the load it will carry should be figured by a different formula in the two cities. Wood also is a material whose behavior for a given variety and grade can be computed with a reasonable degree of accuracy. Studies of concrete have been prosecuted so vigorously that there is fairly good agreement on allowable working stresses. The characteristics of cast iron are well known.

2. There can be greater uniformity in arrangement. Wastes, and delays and annoyances arise from unsystematic arrangement of the subject matter and from variations in arrangement between cities. Some codes leave the prospective builder floundering and uncertain, never sure that a qualifying clause may not be tucked away in some obscure passage.

3. If there cannot be complete uniformity in the details of administration in different cities, there can be at least greater unity in administration without a given city. In a large city it is now sometimes necessary to secure from 17 to 22 separate permits and certificates in order to erect a flat building to accommodate three or four families. Health officers, the police department, the city engineer's office and other bureaus may have to pass on various points.

A Difficult Foundation

By Frank W. Skinner

(Continued from page 99)

the air locks and thence to single drum Sidgewood electric hoisting engines.

Spoil was delivered to hopper bottom bins in the working platforms over the sidewalks and was thence discharged by gravity into trucks that removed it to the dump.

Pre-mixed aggregate was furnished by the Colonial Sand & Stone Company and was stored in 125-yard bin in the general excavation. From there it was delivered by the wheelbarrows to the one-yard Ransome mixer and to the portable Boss mixer, operated by a LeRoy gasoline engine that were supplied with Atlas Portland cement from a 10,000 bag storehouse. The 8,000 cubic yards of 1:2:4 concrete required for the entire substructure were delivered from the mixer into buckets on flat cars that distributed it over industrial tracks to all of the 86 caissons. There it was emptied by derricks operated by electrical, double drum, Lidgewood hoists, five of which were installed on the job.

Caissons were located so close together that there was little space in the general excavation for the installation of plant or the storage of materials, both of which were provided for by the erection of the power house, sand hogs house and small shops on an adjacent rented lot, and by the construction of a wide platform over the sidewalk on three adjacent streets.

In the power house there was located one 600-ft. Chicago Pneumatic Tool Company's compressor, driven by a 100 h.p. Westinghouse motor, to furnish air for operating pneumatic tools and a battery of three electrically driven low pressure compressors furnishing air for the caissons.

Working chambers were concreted under pressure, the air locks removed and the shafts filled with concrete deposited in the open air. The first caisson was delivered April 7, air was first put on April 18 and the last caisson was sealed July 10, thus completing actual pier work in 114 calender days (well in advance of the schedule time notwithstanding that obstructions were even more difficult than had been anticipated and that the quality of the hardpan was such that some of the excavations penetrated it deeper than was expected).

NEXT to one corner of lot was a 3-story brick building with its wall footings only a little below the bottom of the cellar excavation. To insure it against the possibility of settlement, due to caisson excavation within a few inches of the wall, it was underpinned by six steel-concrete piles driven to satisfactory bearing before these caissons were sunk.

Working pits were sheeted down to a depth of 7′ below the wall footings and extended completely across its full width. In the bottom of each there was a set vertical section of 15″ heavy steel pipe that was jacked down full length by a 100-ton Watson Stillman Hydraulic jack reacting against the wall above.

THE jack was temporarily removed, a section of pipe placed on the first and connected to it with an inside sleeve. Jacking resumed, a third section of pipe added, and so on, until a resistance of 80 tons was encountered when the pipe was cleared out by the operation of a Hayward Orange Peel bucket and was filled with rich fine concrete that enclosed upper part of pipe and extended to within a few inches of the wall footing.

When this concrete had set connection was made between it and the old footing by the usual method, with pairs of folding steel wedges driven between two thick bearing plates. These were left exposed until all of the underpinning piles had been driven and the caissons sunk alongside. Then they received their final adjustment and were permanently sealed with concrete and grout. The substructure work was executed by continuous operation carried on by a force of about 100 men in the day shift and 50 men in each of the two night shifts.

The Thompson-Starrett Company is the general contractor for the 16-story building and the substructure was built for them by the Underpinning & Foundation Company under the immediate direction of Alexander Lyle, resident engineer and Robert Gunkel, superintendent.

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KOHLER OF KOHLER announces the Kohler Electric Sink, a most important addition to the labor-saving equipment of the modern home kitchen. The perfected electrical dish-washer, built into Kohler sinks of special design, in models for all installations . . . You are urged to investigate. Please write for descriptive literature.

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Plumbing Fixtures

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country. These prices are presented primarily to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices at which the average contractor can buy, but are quoted to show him the movements of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted. Followed in conjunction with the Review of Building Situation they will prove invaluable indexes of conditions.

NEW YORK PRICES

	Oct. 25	Nov. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring 25/32x2⅜" Face	$85.00	$85.00
Dimensions, S1S1E, No. 1 Common, 2x3 in., 10'..	43.75	43.75
Timbers, Merchantable, 05 12x12', 10' to 20'.....	53.50	53.50
B. & Btr. Partitions, ¾ x3¼ in.....	58.00	58.00
B. & Btr. Ceiling, ½x3¼ in.....	44.00	44.00
B. and Better Finish, 1x4 in.....	68.50	68.50
No. 1 Common Boards, 1x8.....	50.00	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x3½".....	$62.00	$61.00
Roofers, 18/16x6 in.....	33.50	33.50
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3 in...	$68.00	$68.00
No. 1 Clear V. G. Flooring, 1x4 in.....	67.00	67.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	41.50	41.50
No. 2 Clear and Better Drop Siding, 1x6 in.....	53.00	53.00
No. 2 Clear and Better V. G. Stepping.....	87.75	87.75
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$6.23	$6.23
Washington Perfection Shingles, per M.....	6.06	6.06
Clear Bevel Siding, ½x6 in.....	44.00	44.00
CANADIAN SPRUCE—		
No. 1 Lath, 1½ in.....	$7.25	$7.50
Dimension 2x4, 10" to 16".....	36.50	36.50
HARDWOOD FLOORING—		
Clear Quartered White Oak, 13/16x2¼ in.....	$142.50	$142.50
Clear Plain White Oak, 13/16x2¼ in.....	97.50	97.50
Clear Plain Red Oak, 13/16x2¼ in.....	90.00	90.00
Clear Maple, 25/32x2¼ in.....	96.00	96.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M, f. o. b. job.....	$18.70	$17.65
FACE BRICK—		
Tapestry, Red (delivered)	$43.00	$43.00
Tapestry, Gray	43.00	43.00
Tapestry, Golden	42.00	42.00
Caledonian Grey (delivered)	42.00	42.00
Smooth Grey (delivered)	42.50	42.50
Fiske End-Cuts	35.00	35.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.55	$2.55
STRUCTURAL STEEL—		
Steel Bars per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.	$3.25	$3.25
1½ in.	3.25	3.25
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots over 1,000 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd. delivered	$0.19	$0.19
2.8 lb.—24 gauge, light, price per 100 sq. yd., del.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per sq. yd., deliv.	0.31	0.31
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag	$0.60	$0.60
Masons, per 50 lb. bag	0.50	0.50
SAND AND GRAVEL—		
Sand (per cubic yard)	$2.25	$2.25
¾ in. Gravel (per cubic square).....	3.25	3.25
1½ in. Gravel (per cubic yard).....	3.25	3.25
SHINGLES—		
Asphalt, Single (per square).....	$6.00	$6.00
Asphalt Strip (per square).....	6.50	6.50
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	10.70	10.70
18 in. Perfection (per square, delivered).....	11.70	11.70
24 in. Royal (per square, delivered).....	11.70	11.70
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.13	$0.13
6 in. (cents per foot).....	0.19	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per square at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½x8½ in., per foot.....	$0.34	$0.34
8½x13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8x12x12 in., heavy. Each, delivered.....	$0.25	$0.30
HAIR—		
Per bushel	$0.60	$0.60
PLASTER BOARD—		
32x36x⅝ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton	$45.00	$45.00

CHICAGO PRICES

	Oct. 25	Nov. 25
YELLOW PINE—		
Boards, 1x8, No. 1 Common.....	$44.00	$44.00
Ceiling, ⅝x4, B. and Better.....	42.00	42.00
Dimensions No. 1, 2x4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1x6, B. and Better.....	53.00	53.00
Finish, 1x4, B. and Better.....	62.00	62.00
Flooring, B. and Better, E. G., 1x4.....	79.00	79.00
Lath, 4 ft., No. 1.....	6.50	6.50
Timbers, Long Leaf No. 1, 10-20 ft., 6x12 to 12x12	56.00	56.00
HARDWOODS—		
Maple Flooring, 13/16x2¼ in., clear.....	$86.00	$80.00
Oak Flooring, ⅝x2, Cl. P. White.....	67.00	67.00
Oak Flooring, 13/16x2¼, Cl. Pl., White.....	95.00	95.00
REDWOOD—		
Bevel Siding, S1S1E, 8-20', ½x4, clear.....	$30.00	$27.50
Finish, S2S or S4S, 1x6, 8-20', clear.....	72.50	72.50
WESTERN RED CEDAR—		
Bevel Siding, ½x4, clear	$30.00	$30.00
Shingles, extra clear, 16 in.....	3.96	3.96
COMMON BRICK—		
Per M, f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.10	$2.10
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

	Oct. 25	Nov. 25
YELLOW PINE—		
Boards, No. 1, Common, 1x4.....	$41.25	$41.25
Dimensions, No. 1, S1S-E, Short Leaf, 2x4 in., 12-14'	29.00	25.50
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10-12'.....	85.00	85.00
Flooring, B. & Btr., E. G., 1x3	73.00	73.00
Flooring, B. & Btr., F. G., 1x3.....	57.00	56.00
Lath, 4 ft., No. 1.....	6.00	5.50
Timbers, No. 1, rough, short leaf, 6x12 to 12x12 in., 10 to 20 ft.	53.75	53.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1x6 in.....	$82.50	$72.50
Siding, 4 in. Bevel, 4 to 20 ft.....	27.25	27.25
8 in. Colonial, ⅝ in.	45.50	45.50
8 in. Bungalow, ¾ in.....	56.75	54.50
HARDWOODS—		
Oak Flooring, 3/8x1½ & 2 in., clear, Qtr. White	$97.00	$97.00
Maple Flooring, 13/16x2¼ in., clear.....	85.00	82.00
RED CEDAR—		
Siding, ½x6, clear	$42.50	$42.50
Shingles, clears, per M.....	3.96	3.76
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Steel Bars per 100 lbs. at warehouse.....	$3.15	$3.15

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MAKE THIS TEST

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(Write your name and address in margin.)

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 243 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(*See also Alphabetical Index, page* 210)

ACCOUNTING MACHINES—See Bookkeeping Machines

ACOUSTICS

Celotex Co., 645 N. Michigan Ave., Chicago, Ill.
2664. *Acousti-Celotex.* Details and and specifications. Deal with new sound-deadening board.

Insulite Co., Builders Exchange Building, Minneapolis, Minn.
6824. *Literature and Samples.*

Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Sound Deadening and Insulating Materials.* Booklet. Illus.

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ASBESTOS PRODUCTS—See also Roofing

Eternit, Inc. Roberts Ave. and Stokley St., Philadelphia, also St. Louis, New Orleans and Boston.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.
2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.
2145. *Eternit Asbestos Lumber.* 12 pp. folder.
2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.
2147. *Instructions for Applying Eternit Asbestos Shingles.*

Johns-Manville, Inc., 292 Madison Ave., New York.
3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.
4121. *Shingles That Last.* Deals with metal and asbestos roofing.
4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASH DUMPS—See Fireplace Furnishings

ASH HOISTS—See Hoists

AXES—See Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.
3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus
3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Concrete Equipment

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.
2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog "A." Illus. Concerns several types of body showers.

Kohler Co., Kohler, Wisc.
6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.

Republic Brass Co., Cleveland, Ohio.
6661. *Republic Two Way Service Control.* Folder. Describes shower control lever.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5954. *The Transformation.* Describes how hall-end is converted into "Standard Five Foot Square Bathroom."
5955. *"Standard" Pembroke Baths.* Folder in colors.

Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* 10 cents.

White-Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich. New York Office and Display Room, Room 409, Columbia Bank Building, 507 5th Ave. Mr. Harry Parker in charge.
5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.
5342. *White-Steel Shower Curtain Poles.*
5343. *White-Steel Line.* Towel bars, tumbler and soap dish holders.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.
2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Brown Bed Co., Kansas City, Mo.
7011. *All Steel Disappearing Bed.* Designed to prevent collapsing.

Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Holmes Disappearing Bed Co. (See listing Concealed Bed Corp.)

Murphy Door Bed Co., 22 W. Monroe St., Chicago.
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.

BENCH GRINDERS—See Grinding Machinery

BILLING MACHINES—See Bookkeeping Machines

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2343. *Descriptive Literature on Blowers.* Illus.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2542. *Breezo Booklet.* Form 2320. Describes fan for domestic use.
2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.

BOILERS—See Water Heating Systems

Dahlquist Mfg. Co., 30 West Third St., Boston, Mass.
7291. *Aquatherm Data Book.* Lists several types of gas, kerosene, electric, and pressure hot water boilers.

Riverside Boiler Works, Inc., 491 Main St., Cambridge, Mass.
5891. *Range, Boilers.* Describes galvanized and copper types.
5892. *Storage Systems.* Describes automatic, gas-fired types.

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.
2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.
2713. *Building Construction.* Booklet. Descriptive Literature.

Walker Co., Frank R., 536 Lake Shore Drive, Chicago.
4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BOOKKEEPING MACHINES

Elliott-Fisher Co., 342 Madison Ave., New York, N. Y.
6931. *A Machine Which Fits Your Business.* Booklet. Illus. Universal Bookkeeping machine.
6932. *Why.* Booklet. Illus. Basis of bookkeeping by machinery.
6933. *New Elliott-Fisher Automatic Electric.*
6934. *Machine Written Records.* 16 pp. Illus.
6935. *Pay Roll.* 16 pp. Illus. Machine operation.
6936. *The High Cost of Cost Accounting.*

BRACKETS—ROOFING, ETC.

Elite Mfg. Co., Ashland, O.
3011. *Scaffold Brackets.* Catalog. Deals with application.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4427. *Descriptive literature.* Includes prices.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* 16 pp. Describes *Trouble-Saver Steel Scaffolding.*

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.
2111. *The Story of Brick.* 5 pp. Illus. History and requirements.
2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.
2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.
2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.
2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.
2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.
2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.
2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.
2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.
2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.
2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.
2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 17 West 46th St., New York; also Watsontown, Pa.
5691. *Fisklock and other Face Brick.* Appeals to builders from popularity angle.

Hanley Co., 2 Main St., Bradford, Pa.
5961. *Bradford Reds.* Four types of smooth and rough texture face brick.

BRIDGING—See also Metals and Metal Specialties

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6841. *Tru-Tye Steel Bridging.* Steel tension bridging holding without nails.

General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder, A. I. A. File No. 16B2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

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Common Brick has been selected wherever brick is used—in all the houses of the National Demonstration Model Homes series. The house shown here is Plan No. 309X—a six room Georgian house with Common Brick walls.

Easy to Sell—this Model Home of Common Brick

EASY TO SELL—because the use of Common Brick gives real brick construction at lowest cost. A Common Brick house can be attractively—yet profitably—priced.

EASY TO SELL—because Common Brick builds walls of real beauty. Send for the books that tell how.

EASY TO SELL—because brick construction has more "talking points" than any other kind. Permanence, comfort, low upkeep and painting cost, fire-safety—all these arguments help sell the brick house.

Especially *now*—when the Common Brick advertising campaign in the *Saturday Evening Post*, *House Beautiful*, and other magazines is telling people why they should find out "What's in the Walls"—before they buy. Watch for this advertising. It will be a real selling help to the builder who uses Common Brick.

THE COMMON BRICK MANUFACTURERS' ASSOCIATION OF AMERICA

AT YOUR SERVICE

These District Association Offices and Brick Manufacturers Everywhere

Chicago	614 Chamber of Commerce Bldg.
Denver	1735 Stout St.
Detroit, Mich.	400 U. S. Mortgage Trust Bldg.
Hartford, Conn.	226 Pearl St.
Los Angeles	342 Douglas Bldg.
New York City	1710 Grand Cen. Term. Bldg.
Norfolk, Va.	112 West Plume St.
Philadelphia	303 City Centre Bldg.
Portland, Ore.	906 Lewis Bldg.
Salt Lake City	301 Atlas Block
San Francisco	932 Monadnock Bldg.
Seattle, Wash.	913 Arctic Bldg.
Springfield, Mass.	301 Tarbell-Watters Bldg.

2133 Guarantee Title Building
Cleveland, Ohio

Ask us to put you on our *"Builders' Register"*—so that we can refer local brick house prospects to you. This Association refers thousands of such inquiries to builders each year.

BRICK forever

SEND FOR THESE BRICK BOOKS

"Your Next Home"—57 homes in picture and plan (10c) ☐
"The Home You Can Afford"—62 homes (10c) ☐
"Brick, How to Build and Estimate"—(25c) ☐
"Skintled Brickwork"—(15c) ☐
"Farm Homes of Brick"—(5c) ☐
"Brick Silos"—(10c) ☐
"Multiple Dwellings of Brick"—(10c) ☐
"Hollow Walls of Brick"—(Free) ☐

Check above and send for the books you need to use brick with economy.
Write plainly your name and address here.

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Selected List of Manufacturers' Literature

(Continued from page 150)

BUILDING CONSTRUCTION

Copper & Brass Research Assn., 25 Broadway, New York.
5941. *Literature.* Booklets on copper, brass and bronze.

General Fireproofing Co., Youngstown, O.
3221. *The Fireproofing Handbook.* 72 pp. Illus.

Home Owners' Service Inst., Inc., 441 Lexington Ave., N. Y.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price, 10 cents.

Motariess Tile Mach. Co., 21-22 Carrollo Bldg., Santa Barbara, Cal.
6531. *Build With Interlocking Concrete Tile.* Describes machine, gives details and typical installation. 12 pp. Illus.

National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

National Stone Tile Corp., 625 Market St., San Francisco, Calif. and 15 E. 40th St., New York.
7231. *Stone Tile Booklet.* Information on establishing local Stone Tile plant.

Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.
4792. *Truscon Standard Buildings.* Form D-398. 44 pp.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.
4794. *Modern School Construction.* Form D-395. 16 pp.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

BUILDING PAPER

American Reenforced Paper Co., Attleboro. Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature.

BUILT-IN FEATURES

Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on laundry tubs.

Berriman Biltin Wardrob Co., Tribune Tower Bldg., Chicago.
6981. *Berriman Biltin Wardrob.* Built of gum, walnut finished, designed to take place of clothes closet.

Brown Bed Co., Kansas City, Mo.
7011. *All Steel Disappearing Bed.*

Concealed Bed Corp., 58 E. Washington St., Dept. 307, Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Coppes Bros. & Zook, Nappanee, Ind.
7101. *Nappanee Kitchen Unit and Kitchen Cabinets.* Includes Time-Saver Table.

Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.

Kenny-Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.

Kolstad Mail Box Co., 402 W. 1st St., Duluth, Minn.
6801. *Kolstad Mail Box.* For various thicknesses of wall.
6802. *Kolstad Mail Chutes.* Telescopes to fit any thickness of wall.

Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.

Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments.

Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Parker All-Steel Kitchen Cabinet* and *Ranges.*

Penn-Gregg Mfg. Co., 809 University Ave, St. Paul, Minn.
6251. *Mailo Box.* Booklet. Includes prices on built-in mail box.

Richmond Cabinet Co., Richmond, Ind.
6941. *Five Piece Kitchen Assembly.* Finished in white or gray.

Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12-page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.

White-Steel Sanitary Furniture Co., Grand Rapids, Mich.
New York Office and Display Room, Room 409, Columbia Bank Building, 507-5th Ave. Mr Harry Parker in charge.
5341. *White-Steel Medicine Cabinets.* Inset type flush with wall. Also mirror models plain and in combination with shelf and towel bar attachment, also tumbler and soap dish holder.
5342. *White-Steel Shower Curtain Poles.*
5353. *White-Steel Line.* Towel Bars, tumbler and soap dish holders, glass shelves, robe and razor strop hooks, grab-rails, etc.

CABINETS—See Built-In Features; also Bathroom Fixtures

CALCIUM CHLORIDE—See Concrete Process

CANVASS—See Roofing Materials

CARBURETORS—See Trucks, Motor Supplies

CARPENTERS' TOOLS—See Tools, Edge, also Tools

CASEMENTS—See Windows, also Windows, Metal

CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings, Columns* (Iron and Steel).

CAULKING AND GLAZING COMPOUNDS

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* 14 pp. Illus. Asphalt putty.

Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.

A. C. Horn Co., Long Island City, N. Y.
6592. *Vulcatex Folder.*
6593. *Hornglaze.*

CEILINGS, METAL—See Metals, etc.

CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland

Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical.
2063. *Alpha Service Sheets.* Instructions on concrete construction.

Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar*, a building mortar.

Lehigh Portland Cement Co., Allentown, Pa.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48
3774. *28 Better Homes.* Describes winning designs in Lehigh Cement Co.'s Competition for Concrete Masonry Houses.
3775. *Building Better Homes.* Describes construction of four of the prize winning designs.

Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.

Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.

CEMENT—High Temperature

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* 14 pp. Elastic Boiler cement.

Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Aerite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT COLORS—See Mortar and Cement Colors.

CEMENT PAINT—See Paint, Cement

CEMENT, TILE

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.

CEMENT TOOLS

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.*
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHIMNEY CAPS—See Ventilators, also Metals, etc.

CINDER BLOCKS—See Building Blocks

CLAMPS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.

Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

COAL CHUTES

H. W. Covert Co., 137 E. 46th St., New York.
6322. *Covert Coal Chutes.* Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2052. *Descriptive literature.* Illus.

Kewanee Mfg. Co., 105 No. Tremont St., Kewanee, Ill.
5971. *Kewanee Coal Chutes.* Describes copper steel types with plain or glass doors.

Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools

COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors

COLUMN BASES

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus.

COLUMN AND BEAM COVERING

United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*

COLUMNS, WOOD

Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.

COMBINATION DOOR—See Doors

COMBINATION WOODWORKERS—See Woodworking Machinery

CONCRETE ACCESSORIES

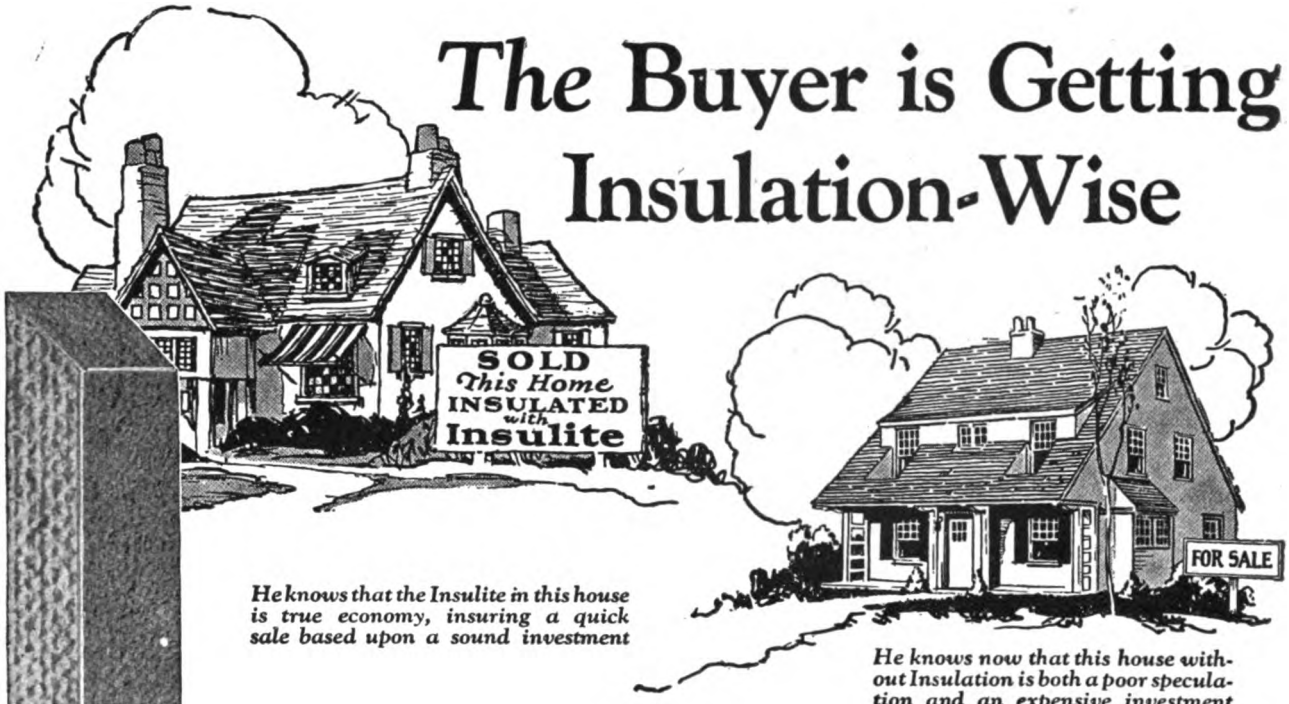
Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples of standard and junior clips for anchoring wood floors to concrete

Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.

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The Buyer is Getting Insulation-Wise



He knows that the Insulite in this house is true economy, insuring a quick sale based upon a sound investment

He knows now that this house without Insulation is both a poor speculation and an expensive investment

RESEARCH and experiment have disclosed the following *facts* about insulation—

—a warmer house in winter.
—a cooler house in summer.
—a more healthful house throughout the year.
—an important saving in fuel.
—easy maintenance of an even temperature.
—a quieter home and more rest for the nerves.

These are the leading advantages of *insulation*—and—all that *insulation* means, INSULITE does!

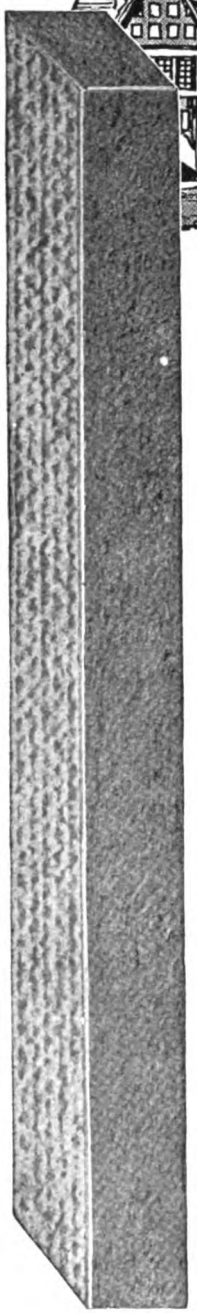
Such are the proved facts, which every buyer now knows—or learns before he buys. Hence, *insulation* is frequently the controlling factor in closing sales.

INSULITE is the proper material for perfect insulation—it easily eclipses other structural materials for outside sheathing, interior plaster-base or wall-board, sound-deadening, and remodeling.

INSULITE has the rigidity and strength that insure permanence. It is an all-wood product with the advantages of wood and the added advantage of the INSULITE process. The textile finish lends beauty to any room where it is used as a wall-board.

Write for Insulite Specification Folders for your files. The experts of our service department are available on any insulation problem you may have in hand.

THE INSULITE COMPANY
MINNEAPOLIS, MINNESOTA



Insulite is a half inch thick. Comes wrapped in neat, strong bundles, and is delivered to the job in perfect condition.

Insulite

SHEATHING · PLASTER-BASE · WALL BOARD

ALL THAT INSULATION MEANS INSULITE DOES

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Selected List of Manufacturers' Literature

(Continued from page 152)

4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.

Sporman Mfg. Co., Cedar Rapids, Iowa.
7261. *Kwik-Way Sack Cleaner.* Improved type.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT5.* Deals with *Floor Voids* for use in concrete.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

C. K. Williams & Co., 636 N. 13th St., Easton, Pa.
6601. *Anchor Brand Water Colors and Cement Colors.* Folder.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY AND EQUIPMENT

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 68 pp. Illus.

Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus.
2683. *More Yards Per Day.* Catalog. 38 pp. Describes Rex high speed idea.
2684. *The New Rex* 14-S. 18 pp. Catalog No. 136. Apply Rex high speed idea to larger building mixers.

Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

J. B. Foote Foundry Co., 26 Front St., Fredericktown, Ohio.
3111. *Panama Line.* Catalog. Includes Panama concrete block machinery, concrete mixers, sill and cap machines, etc.

Heltzel Steel Form & Iron Co., Warren, Ohio.
3391. *Steel Batch Boxes.* Seamless, One-Piece Bottoms
3392. *Steel Curb, Sidewalks and Driveway Forms.* Catalog.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.

Knickerbocker Co., 550 Liberty St., Jackson, Mich.
6131. *Knickerbocker Catalog.* Describes Knickerbocker line of Quality Equipment for Builders. State desired machine.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

Mortarless Tile Mch. Co., 21 Carrillo Bldg., Santa Barbara, Cal.
6531. *Build With Interlocking Concrete Tile.* Describe machine, gives details and typical installation. 12 pp. Illus.

Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog,* 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp.
4562. *A Series of Leaflets,* Folders, etc. Illus.

Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Concrete Mixers and Pavers.* Catalog No. 500. Illus.
4592. *Smith 27 E Six Bag Paver.* Catalog 400-F. 40 pp. Illus.
4594. *Smith Glass Batch Mixers.* Catalog 404-A. 16 pp. Illus.
4595. *Smith Railway Pavers.* Bulletin 1015. 8 pp. Illus.

Standard Scale & Supply Corp., Pittsburgh, Pa.
6351. *Standard Mixer Booklet.* Deals with complete line of "Standard concrete machinery.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog 25.* Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.
5581. *Van Guilder Wallbuilder. Booklet.* Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.
6861. *Anti-Hydro Formula.* For hardening, waterproofing, and dampproofing concrete, stucco and cement mortar.

General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus.

A. C. Horn Company, Long Island City, N. Y.
6595. *KeramiK KemiK Stains.* Brochure. Chemical penetrating stain giving artistic color effects.
6596. *Hornstone Crystals.* Folder. Chemical floor hardener.
6597. *Ferro-Fax.* Folder. Metallic floor hardener.

National Building Units Corp., 1600 Arch St., Philadelphia.
7071. *Cinder Concrete Building Block.* Consolidation of 18 cinder concrete manufacturers.

Solvay Process Co., 40 Rector St., New York.
4601. *Solvay Calcium Chloride in Concrete Construction.* Book.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Dampproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

Van Guilder System Conc. Bldg., Inc., 15 E. 40th St., New York.
5581. *Van Guilder Wallbuilder.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS—See Fireplace

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DASH—See Stucco Dash

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No. 2.* Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass

DIRECT MAIL ADVERTISING—See Mailing Lists

DISAPPEARING BEDS—See Beds, Door

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash..* Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog.

DOORS, WOOD

Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Paine Lumber Co., Ltd., Oshkosh, Wisc.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31 Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

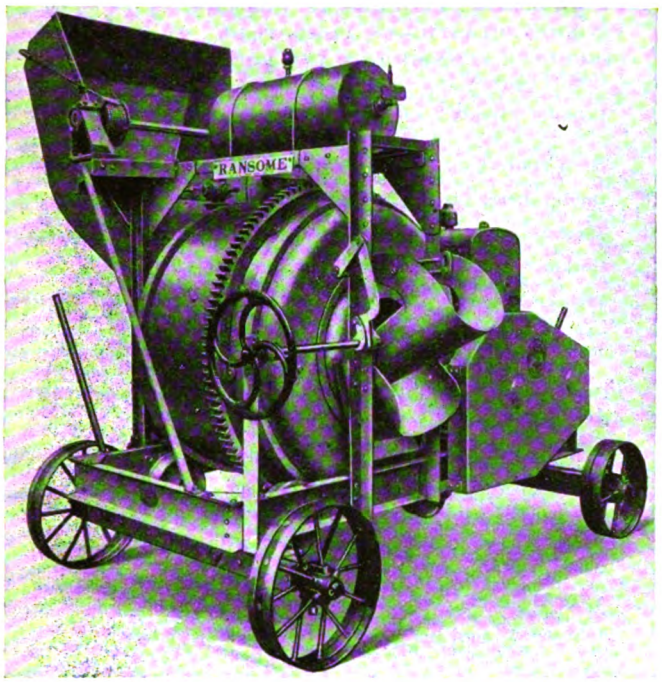
DOOR BEDS—See Beds, Door; also Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Beckmann Co., L., 1002 Jackson Ave., Toledo, Ohio.
2421. *Convertible Level* included in catalog. 80 pp.

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Ransome 10-S Standard Building Mixer

WITH POWER LOADER AND AUTOMATIC WATER TANK

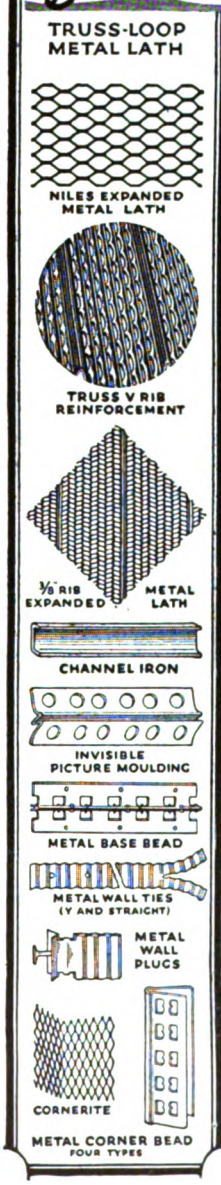
A real 10-S Mixer, this one. Large capacity drum—51 inches in diameter by 39 inches wide, inside measurements—with steel plate shell and flanged heads electrically welded. Timken Roller Bearings on Drum Rollers. Complete control with *one* set of levers located at drum end of mixer. Four cylinder, 15 H.P. gasoline motor. It's a real Ransome Standard Building Mixer throughout and it's a real 10-S mixer.

Ransome Concrete Machinery Co.
Dunellen New Jersey

(411)



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Rely on Him for Plastering Materials

THERE is a supply dealer in your city who understands plastering problems and plastering profits, from the standpoint of the keen, well-informed plastering and lathing contractor.

He knows that cheap materials do not spell economy, for his shrewdest customers are regular purchasers of Bostwick "Truss-Loop" Metal Lath, for thirty-six years the highest grade lath obtainable—and incidentally a great economizer of working time and plastering materials.

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THE BOSTWICK STEEL LATH CO.
NILES, OHIO

The Bostwick DEALER

AND COMPLETE BOSTWICK LINE

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Selected List of Manufacturers' Literature

(Continued from page 154)

Empire Level Mfg. Co., 313 First Ave., Milwaukee, Wis.
6271. *Empire Levels.* With patented interchangeable vial case.
Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.
Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments
White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)
Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No. 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT
Frank Adam Electric Co., St. Louis, Mo.
6041. *Panel Board Hand Book.* Catalog. Contains data for contractor and electrical engineer.
Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.* Illus.
Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Completely wired lighting fixtures.
General Electric Co., Bridgeport, Conn.
8215. *G-E Farm Book.* Y-1948. 80 pp. Electricity on the farm.
3216. *G-E Welding Electrodes.* Folder.
3217. *Wires and Cables.* 85 pp. Illus. 4 bulletins.
3218. *Electric Fans.* Folder gec-20. 6 pp. Illus.
3219. *Multiply Conveniences by Three.* Folder GEC-25. 4 pp. Shows use of three devices from one outlet.
32111. *Cord Switch.* GEC-7. 4 pp.
32112. *For Dependable Soldering.* GEC-6. Soldering paste.
32113. *Oh, Boy, Now for DX.* 4 pp. On new model G-E Tungar Battery Charger.
32114. *G-E Tungar Battery Charger.* Leaflet GEC-19. 2 pp.
32115. *G-E Wiring System for Lifetime Service.* GEC-2. 6 pp.
32116. *The Home of 100 Comforts.* 40 pp. Y-1834. Complete treatise on adequate wiring. 25 cents.
Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42nd St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.
5003. 1926 *Catalog.* For electrical contractors.
Guth Co., Edwin F., St. Louis, Mo.
7111. *Guth Lite. Folder.* Fixture in plain and ornamental types.
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3313. *Tumbler Switch.* Folder. 4 pp. Illus.
3315. *H & H General Catalog "S."* Includes new listings of flush, snap and canopy switches and candle sockets and receptacles.
3316. *Porcelain Lighting Outlet.* 4 pp. For wiring jobs.
3317. *Renewable Fuse Plug.* Circular. Two-Piece Plug.
Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.
Kohler Co., Kohler, Wisc.
6692. *Principle and the Proof.* Booklet. 32 pp. Describes private electric plants. Automatic, 110 volt, no storage batteries.
Marco Light and Power Corp., Lansing, Mich.
7151. *Electric Plant Power with "New-Way" Engine.* Catalog M-27.
Paramount Electric Co., 251 Y Market St., Philadelphia, Pa.
7181. *General Catalog.* Complete line of fixtures.
Stairway Switch Co., 235 Brookdale Ave., Glenside, Pa.
7051. *Stairway Switch.* Installed beneath cellar stair treads for automatic light control.
Western Elec. Co. (See Graybar Electric Co.)

ELEVATORS
American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No. 22.* Contains description of hoists.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6364. *Hand Power Elevators and Dumbwaiters.* 20 pp.
Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Details of Specifications.* The Service Department provides individual sheets to meet the specific needs of elevator users.
Sedgwick Machine Works, 156 West 15th St., New York.
4551 *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT
McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp., Illus.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES
Fuller & Johnson Mfg. Co., 406 Ames St., Madison, Wisc.
6791. *Bulletin No. 430.* Engines for use with concrete mixers.
6792. *Bulletin No. 500.* Two Cylinder Engines for industrial work.
Novo Engine Co., Lansing, Mich.
4221. *Industrial Power Units.* 12 types of drive.

EXHAUSTERS—See Blowers; also Ventilators

FANS—See Blowers

FIBRE BOARD LUMBER—See Wallboard

FINISHES, PLASTIC—See Plastic Finish

FIREPLACE FURNISHINGS AND EQUIPMENT
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.
Colonial Fireplace Co., 4603-4617 West 12th St., Chicago.
6681. *Everything for the Fireplace.* Catalog. 48 pp. Illus. Covers line of grates, andirons, dampers, mantels, etc.
H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.
Jacobson Mantel & Ornament Co., 322 East 44th St., New York.
6961. *Architecture and the Chimneypiece.* 10 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6361. *Mesker Fireplace dampers and ash dumps.*
Pioneer Fireplace & Supply Co., 5329 West Lake St., Chicago.
5721. *Fireplaces.* Booklet. Deals with various types.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE
General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.
A. C. Horn Co., Long Island, N. Y.
6599. 16 *Floor Problems and How to Solve Them.*
Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Treatment for Floors, Woodwork and Furniture.* 32 pp.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING
Arkansas Oak Flooring Co., Pine Bluff, Ark.
6851. *Perfection Brand Oak Flooring.* Size and grade for every type of structure.
Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.
Bruce Co., E. L., Memphis, Tenn.
5701. *Catalog.* 24 pp. Illus. Deals with convenience and wearing qualities of Bruce Oak flooring.
Bull Dog Floor Clip Co., Winterset, Iowa.
6211. *Bull Dog Floor Clips.* Samples. Standard and junior clips for anchoring wood floors to concrete.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Crooks-Dittmar Co., Williamsport, Pa.
6621. *Cromar Ready Finished Oak Flooring.* Concerns manufacture, selling and laying varnished and waxed flooring.
Eaglesfield Flooring Co., 914 Dorman St., Indianapolis, Ind.
6331. *Illustrated Book.* Designs in natural colors of parquetry and hardwood floors of Indiana quartered white oak.
Jackson Lumber Co., Lockhart, Ala.
5772. *Dixie Rift Flooring. Booklet.* End-Matched Flooring.
Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.
Maple Flooring Mfrs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors.* Booklet. 16 pp. Deals with laying and finishing.
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3934. *The Floor Which the Years Will Make Precious.* Folder.
3935. *A Floor of Captive Sunlight.* Illus. Folder.
3937. *Folder.* 1½-inch face maple, beech or birch.
39312. *Grading Rules.* Booklet. 8 pp.

Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.
Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.
Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

FLOORING, COMPOSITION
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6382. *Genasco Asphalt Mastic Booklet.* 32 pp. Illus.
Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOOR SANDERS—See Sanders

FLOOR SURFACING MCHY.—See Sanders,

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FLUE LINING
W. S. Dickey Clay Mfg. Co., Birmingham, Ala., Chattanooga, Tenn., Kansas City, Mo., Macon, Ga., Texarkana, Tex.
6101. *Dickey Fire Clay Flue Lining.* Catalog.

FORMS—See Concrete Machinery

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Improved V-Joint Type of Tongue and Groove is Quicker and Cheaper to Lay



THE laying of CROMAR Flooring is one of the simplest and easiest jobs in the construction of a building. It is no more difficult when re-laying in an old house. Each CROMAR strip is perfect. The improved V-joint type of CROMAR tongue and groove fits closely and evenly, without "blocking." Each nail hole is punched. The flat, beveled edge of the tongue permits quick, accurate nailing without any necessity whatever of "setting" the heads. Specially trained, highly paid floor-layers are not needed.

The CROMAR Ten Points of Prime Importance

1. Factory finished — like furniture.
2. Finish stands hardest wear.
3. Coating four sides protects against moisture.
4. V-type tongue and groove easy to lay.
5. Beveled tongue prevents damage in nailing.
6. Cleanable surface groove.
7. Convenient and damage-proof bundle.
8. Laying contracts need not be sublet.
9. Promotes extra sales for occupied houses.
10. Laid and used the same day.

If you have a copy of the "Home Builders Catalog", refer to our Pages 184 and 185 for further details.

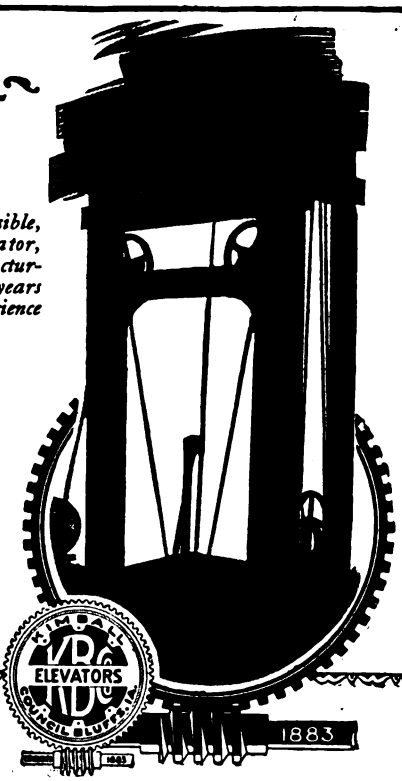
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Williamsport, Pa.

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FACTORY FINISHED OAK FLOORING
LAID AND USED THE SAME DAY

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LIGHT ELECTRIC ELEVATORS

These Elevators are quickly and easily installed in your building. They are easy to operate and give as fine a service as elevators costing many times as much.

They are built in several capacities, ranging from 1,000 to 3,000 lbs. Each elevator is built for the task it must perform and is fully guaranteed to serve in an efficient manner.

A moderate priced, sturdy, well designed elevator built in all sizes and capacities. An outfit truly worthy of the name "Kimball" it bears.

Especially adaptable for retail stores, bakeries, creameries, mortuaries, hospitals, factories or wherever safe, light, fast, inexpensive elevator service is demanded.

Prompt shipment, quick installation, meeting all state and insurance safety requirements, and guaranteed satisfaction is Kimball Light Electric Service.

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DULUTH
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DENVER
SALT LAKE
DALLAS
OKLA. CITY
FORT SMITH

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Selected List of Manufacturers' Literature

(Continued from page 156)

FRAMES, DOOR AND WINDOW

Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Frames.* 48 pp. Illus. Complete catalog.
2242. *How To Test Window Frames.* 12 pp. Illus.

Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5202. *Windows, Doors and Frames.*

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS—See Incinerators

GARBAGE RECEIVERS

H. W. Covert Co., 137 E. 46th St., New York.
6323. *Covert Garbage Receivers.* Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.

Majestic Company, Huntington, Ind.
3903. *Garbage Receivers.* Catalog of Majestic products

GLASS

American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.

Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Store Fronts.* 36 pp. Cuts and details.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Factrolite and Pentecor wire glass.
4012. *Factrolite.* Describes this type of diffusing glass.
4013. *Pentecor.* Combination rib and prism wire glass.

GLAZING COMPOUND—See Caulking

GLUE POTS

Barker & Co., B. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.

Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.

GRADEFINDERS—See Drafting & Surveying

GRATINGS, STEEL

Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6842. *Steel Grating.* For flooring, runways, etc.

GRILLES—See also Registers

Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM

United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware, Window and Door

HARDWARE, WINDOW AND DOOR

Allith-Prouty & Co., Danville, Ill.
6051. *King Take-apart Adjustable Hinge.* Literature. Describes adjustable screen door hinge and other A.-P. products—fire and garage door hardware, door hangers, overhead carriers, spring hinges, rolling ladders.

Austral Window Co., 101 Park Ave., New York.
6081. *Austral Sash Sustainer.* Device for replacing weights on sash not exceeding 18 lbs. Sample, 50c a set.

Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.

Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.

Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*

Coburn Trolley Track Mfg. Co., Dept. G-1, Holyoke, Mass.
6751. *Sliding Door Hardware for Garages, Factories, Warehouses.* Catalog No. 140.

Ideal Sash Supporter Co., Kingston, Pa.
6121. *Ideal Window Sash Supporters.* Literature. Describes supporters used in sets of four on each sash.

Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.

Lyons Mfg. Co., New Haven, Conn.
5281. *Lymco Casement Window Adjusters.* Folder. 4 pp. Illus.

McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
8852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Pullman Mfg. Co., Rochester, N. Y.
4371. *15 Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog 40.* Sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

Stanley Works, New Britain, Conn.
6671. *Hardware—Window, Door and Garage.*
6672. *Detail Manual.* Shows application of all Stanley Hardware.

Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HARDWOOD FLOORING—See Flooring

HEATING EQUIPMENT—See also Ranges

A-B Stove Co., Battle Creek, Mich.
7251. *A-B Gas Ranges.* Catalog.

American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.

Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.

Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.

Buffalo Co-operative Stove Co., Buffalo, N. Y.

Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.

H. W. Covert Co., 137 E. 46th St., New York.
6321. *Covert Improved Throat and Damper.* 3-part assembly for various types of fireplaces

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.

Kalamazoo Stove Co., Kalamazoo, Mich.
7201. *Pipe Furnaces and One Register Types.*

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Majestic Company, Huntington, Ind.
3902. *Ash Pit and Clean Out Doors.* List of Majestic products.

Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.

Silent Automatic Corp., 255 Meldrum Ave., Detroit, Mich.
7041. *Silent Automatic Oil Burner.* Describes operation in detail.

Skinner Bros. Mfg. Co., Inc., 1426 S. Vandeventer Ave., St. Louis, Mo.
7241. *Steam Coil Heaters.* For industrial buildings.

Stanley Plumbing Supply Co., Inc., 932 Spring Grove St., Phila.
5991. *General Catalog.* 10 cents.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace*

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.

United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 23 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.

HINGES—See Hardware, Window and Door

HOISTING EQUIPMENT—See Hoists, Elevators, Winches

HOISTS—See also Elevators

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.

HORSES—See Scaffolding

HOUSE MOVING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS

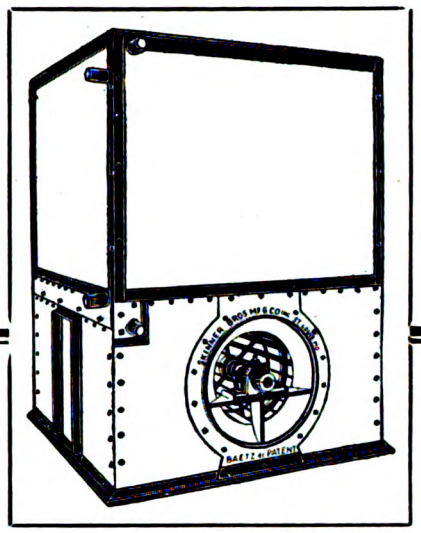
Kerner Incinerator Co., 727 East Water St., Milwaukee, Wis.
3641. *Sanitary Elimination of Household Waste.* Booklet. Illus. Kernerator for residences.
3642. *Incinerators (Chimney Fed).* No. 15. Information and data for residences, apartments, clubs, etc.
3643. *Garbage and Waste Disposal for Apartments.* 8 pp.
3644. *Sanitary Disposal of Waste in Hospitals.* 12 pp. Illus.

INJECTERS—See Water Systems

INSULATION

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisakraft.* Samples to show composition—two layers No. 1 Kraft, 2 layers Asphaltum, 2 layers Javas sisal fibres.

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NEW YORK
Raymond M. Hood, *Architect*

Mississippi Wire Glass Co.

220 FIFTH AVENUE, NEW YORK
St. Louis Chicago

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Selected List of Manufacturers' Literature

(Continued from page 158)

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus. Deals with Bishopric Stucco and Sunfast finishes.
Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Insulating Quilt.* Booklet. 24 pp.
2595. *Cabot's Deadening Quilt.* Booklet. 28 pp.
Celotex Co., 645 North Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.
Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.*
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus.
Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6821. *Literature and Samples.*
Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Materials.* 22 pp. Illustrated.
Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.
7031. *KVP Building Paper.* Literature.
Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4x8 ft. and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.
Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4835. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus.

IRONING BOARDS—See Built-In Features

JACKS, BUILDING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL
General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

KITCHEN SINKS
Kohler Co., Kohler, Wisc.
6691. *Kohler Line.* Bathroom fixtures and plumbing equipment.
Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5956. *Is Your Sink a Yard Stick High?* Folder in color.

LAMP STANDARDS
Geo. L. Mesker & Co., Evansville, Ind.
63611. *Mesker Cast Iron Lamp Standards.* White Way lamp posts. Includes stock models and special designs.

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES
Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.
5801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS—Metal and Wood
Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofing.* Literature. Illus.
5944. *Copper Flashings.* Hand-Book.
E. M. Long & Sons, Cadiz, Ohio.
7211. *"Improved" O. G. Fir Gutters.* Booklet. Illus.
Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING FIXTURES—See also Electrical Equipment
Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Completely wired lighting fixtures.
Guth Co., Edwin F., St. Louis, Mo.
7111. *Guth Lite.* Folder. Fixture in plain and ornamental types.
Jacobson Mantel & Ornament Co., 322 East 44th St., New York.
6062. *Grinling Gibbons Electric Light Wall Fixtures.*
Paramount Electric Co., 251 Y Market St., Philadelphia, Pa.
7181. *General Catalog.* Complete line of fixtures.

LIGHTNING RODS
Copper & Brass Research Assn., 25 Broadway, New York.
5945. *Side Tracking Lightning.*
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
National Mortar & Supply Co., Pittsburgh, Pa.
6771. *Banner Finish Specifications and Other Descriptive Literature.*

LINOLEUM—See Flooring

LUMBER AND WOODWORK
Arkansas Soft Pine Bureau, 801 Boyle Bldg., Little Rock, Ark.
6441. *Handbook.* Includes finishing instructions. Samples of natural and finished panels.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
2613. *Some "Dollar-Sense" About Lumber on the Farm.* 32 pp. Construction details with description.
2614. *Introducing "Cal" Pine, Guardian of the Grades.* 50 pp.
Chicago Millwork Supply Co., 1400 West 37th St., Chicago.
5871. *Millwork and Building Material Catalog.* Illus.
Farley & Loetscher Mfg. Co., Dubuque, Iowa.
5203. *Interior Finish in Hardwood.* F-L line of mouldings, etc.
Gumwood Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
6231. *Beautiful American Gumwood.* Booklet. Describes application of Gumwood for paneling and interior woodwork.
Hartmann-Sanders Co., Eltson and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.
Jackson Lumber Co., Lockhart, Ala.
5771. *Builders Lumber.* Literature. Illus.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3815. *Post Everlasting.* 16 pp. Illus. Information on creosted yellow pine fence posts.
3816. *Sentinels of Service.* 32 pp. Creosoted yellow pine poles.
Maple Flooring Mfgs. Assn., Stock Exchange Bldg., Chicago.
3931. *How to Lay and Finish Maple, Beech and Birch Floors.*
3932. *Color Harmony in Floors.* Descriptive Booklet.
3933. *The Floors for Your Home.* Booklet. Illus. 14 pp.
3936. *What You Can Do With Wide Face Flooring.* Folder.
3938. *Long Service From Short Lengths.* Folder. Gives suggestions on floors of Maple, Beech or Birch.
39312. *Grading Rules.* Booklet. 8 pp. Gives rules for Maple, Beech and Birch Flooring.
Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.
Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
5901. *The Charm of Modern Oak.* Booklet. Tells of the Renaissance of Oak for woodwork finish.
5902. *The Charm of The Sovereign Wood.* 80 pp. 100 plates.
Southern Pine Association, New Orleans, La.
5921. *Literature.* Discusses value of Grade-Marked Lumber.
Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.
West Coast Lumber Trade Extension Bureau, 5562-E Stuart Bldg., Seattle, Wash.
6741. *Treatise on Douglas Fir.* Douglas Fir for scaffolding, for concrete form, structural timbers and many interior uses.
Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Development of Western Pine industry.

LUMBER, ASBESTOS—See Asbestos Products

MACHINES, BOOKKEEPING AND ADDING—See Bookkeeping Machines, also Adding Machines.

MAIL BOXES—See Built-In Features

MAILING LISTS
R. L. Polk & Co., 352 Polk Bldg., Detroit, Mich.
4341. *Polk's Reference Book.* Mailing List Catalog No. 55.

MANTELS—See Fireplace Furnishings.

MARBLE
Marietta Mfg. Co., 91 Brookside, Indianapolis, Ind.
7141. *Sani Onyx Vitreous Marble.* In six surface textures—Flame Glaze, Semi Matte, Matte, Tapestry, Polychrome and Embossed.

MARQUISES—See Metals

METALS AND METAL BUILDING SPECIALTIES
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets* Catalog. Illus
2183. *Research in the Corrosion Resistance of Copper Steel.* 24 pp.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*
Blaw-Knox Co., 629 Farmers Bank Bldg., Pittsburgh, Pa.
6841. *Tru-Tye Steel Bridging.* Steel tension bridging holding without nails.
Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Brass Pipe containing Alpha crystals.
Copper & Brass Research Assn., 25 Broadway, New York.
5946. *Practical Brass Pipe Plumbing.* Hand-Book.
5947. *Brass Pipe Plumbing for Your Home.*
5945. *Side Tracking Lightning.* Shows annual loss from lightning and use of copper rods to save buildings.
5944 *Copper Flashings.* Hand-Book.
5948. *The Story of Copper.* Tells use of copper, brass and bronze through the ages.
5949. *Screens That Keep Them Out.* Copper and bronze screen-cloth.
59411. *Physical Properties of Copper.* Hand-Book for engineers.
Donley Bros. Co., 12020 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing,* etc. Catalog. 224 pp. Illus.
General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.
Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.
F. D. Kees Mfg. Co., 20 High St., Beatrice, Neb.
6261. *Metal Corners for Wide, Colonial Siding.* Kees metal corners to give buck-mitred corner effect.

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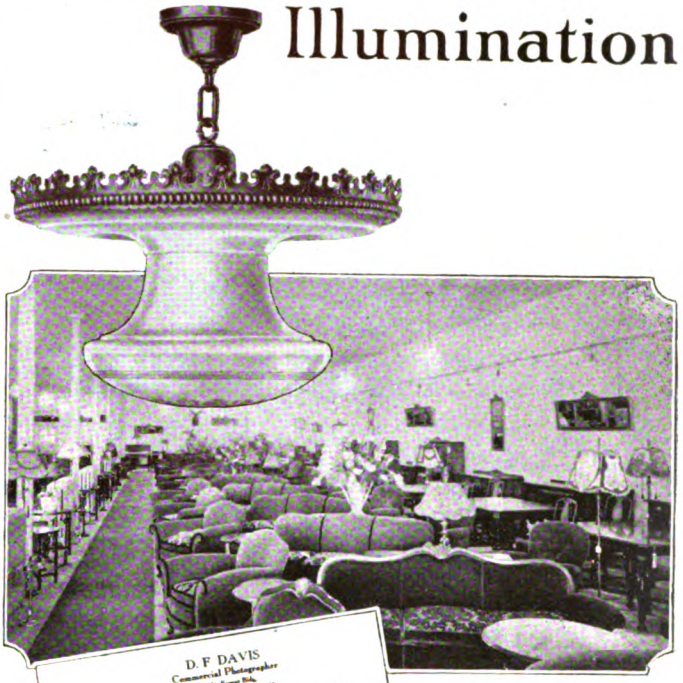
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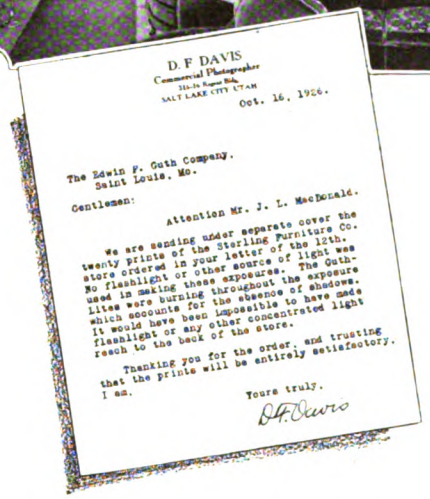


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Salt Lake City, Utah

Oct. 16, 1926.

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Selected List of Manufacturers' Literature

(Continued from page 160)

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6367. *Mesker Metal Ceilings.*
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No. 27.* 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.
Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Describes lead coated sheets, roofing, etc.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus

MOLDS, CONCRETE—See Concrete Machinery

MORTAR
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*
Wellston Iron Furnace Co., Jackson, O.
7271. *Wifco Super-Mortar.* 6 colors. Colored at the mill.

MORTAR BOXES—See Concrete Equipment

MORTAR AND CEMENT COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
2596. *Combination Color Card.* Creosote Shingle Stain and Double Colors.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.
2735. *Something New in Stucco.* Folder. 8 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
65911. *Staybrite.* Dry and paste colors. Folder and color card.
Wellston Iron Furnace Co., Jackson, O.
7271. *Wifco Super-Mortar.* 6 colors. Colroed at the mill.
C. K. Williams & Co., 636 N. 13th St., Easton, Pa.
6601. *Anchor Brand Mortar Colors and Cement Colors.* Folder.

MOTOR TRUCKS AND ACCESSORIES—See Trucks, Motor and Trucks, Motor-Supplies

NAILS, MASONRY—See Masonry Nails

NAILS, ROOFING—See Roofing

OIL BURNERS—See Heating Equipment

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6362. *Architectural Iron Castings and Iron and Steel Columns.*
6363. *White Way Posts.* 24 pp. Illus. Cast Iron Lamp Standards.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

ORNAMENTS
Jacobson Mantel & Ornament Co., 322 East 44th St., New York, N. Y.
6963. *Compo Ornaments for Application to Woodwork.* Take place of wood carving on mirror frames, mantel pieces, over mantel, etc.

PACKAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6881. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating, industrial paint, acid proof paint, battery paint.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2115. *Dampproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
2596. *Combination Color Card.* Waterproof Collopakes.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
A. C. Horn Co., Long Island City, N. Y.
65912. *General Line.* Color cards and specifications.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Contains actual panels.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for dampproofing, waterproofing, enameling.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4782. *Science and Practice of Integral Waterproofing.* Illus. 33 pp. Contains specifications for waterproofing mass, concrete stucco and cement plaster coat.
4783 *Technical Pamphlet No. 8.* Booklet. 28 pp. Discusses concrete waterproofing.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
2596. *Combination Color Card.* Waterproof Collopakes.
A. C. Horn Co., Long Island City, N. Y.
6594. *Symentrex* and *Koncrex.* Color cards for each.

PAINTS, WATERPROOFING—See Waterproofing

PANELS—See Veneer, Wallboard, Panels, Wood

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of Alberene Stone.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PEBBLE DASH—See Stucco Dash

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.
Chase Companies, Inc., Waterbury, Conn.
6311. *Alpha Brass Book.* Describes Alpha Brass pipe containing Alpha crystals.
Copper & Brass Research Assn., 25 Broadway, New York.
5946 *Practical Brass Pipe Plumbing.* Handbook.
5947. *Brass Pipe Plumbing for Your Home.*

PIPE, CONDUCTOR
Copper & Brass Research Assn., 25 Broadway, New York.
5943. *Real Roofings.*
5944. *Copper Flashings.* Handbook.
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head zinc.*
Wheeling Corrugating Co., Wheeling, W. Va.
5931. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O. (See listings under Brick.)
Gowing, Frederick H., 101 Tremont St., Boston, Mass.
7081. *Building Plans for Modern Homes.* 224 pp. Price, $3.00.
7082. *Bungalows.* 150 designs. Price, $1.50
Home Owners' Service Inst., Inc., 441 Lexington Ave., New York.
6991. *A Manual of Home Building.* 48 pp. Perspectives and floor plans of model homes. Price 10 cents.
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLASTERING MATERIAL—See Lime, also Fibre

PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing in diagram and information on service and guarantee.
Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet.
Crane Co., 836 S. Michigan Ave. Chicago.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kaustine Co., Inc., Buffalo, N. Y.
6241. *Kaustine Super-Septic Tanks.* Describes Armco Iron Septic Tanks. Include plan and installation advice.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.
Kohler Co., Kohler, Wisc.
6691. *Kohler of Kohler Book.* 48 pp. Condensed catalog plumbing fixtures for bathrooms, kitchens and laundries.

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Sheet Metal Work that Resists Rust!



The destructive enemy of sheet metal is *rust*. It is successfully combated by the use of protective coatings, or by scientific alloying to resist corrosion. Well made steel alloyed with Copper will last longest. Insist upon

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Rust-Resisting Copper Steel

Sheets

AND ROOFING TIN PLATES



Add safety to satisfaction, with full protection from fire, lightning, and weather. Keystone Copper Steel gives superior service for roofing, siding, gutters, spouting, flashings, metal lath, tanks, culverts, and all uses to which sheet metal is adapted. Look for the Keystone included in brands. We manufacture American Bessemer, American Open Hearth, and Keystone Copper Steel Sheets and Tin Plates for every requirement of particular architects, builders, and property owners.

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Apollo Best Bloom Galvanized Sheets
Apollo-Keystone Galvanized Sheets
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High Grade Roofing Tin Plates
Fire Door Stock, Long Ternes
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APOLLO-KEYSTONE Galvanized Sheets give increased service and added permanence to your building construction. These are unquestionably the highest quality sheets produced for galvanized sheet metal work.

KEYSTONE COPPER STEEL Roofing Tin Plates make clean, safe, attractive and satisfactory roofs. Supplied in grades up to 40 pounds coating—specially adapted to residences and public buildings. Metal roofs may be painted to harmonize with the color scheme of the building—an important feature which is often overlooked. Keystone quality products are sold by leading metal merchants, and are used by first-class roofers and sheet metal workers. Write for interesting booklets.

American Sheet and Tin Plate Company

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Chicago Cincinnati Denver Detroit New Orleans New York Philadelphia Pittsburgh St. Louis

Pacific Coast Representatives: UNITED STATES STEEL PRODUCTS CO., San Francisco Los Angeles Portland Seattle

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TOWER COURT APARTMENTS, EVANSTON, ILL.
Sound-Deadened with Cabot's Quilt
Anthony Quitsow, Architect, Chicago

Sound-Proof Apartment Houses

Modern apartments must be proof against Jazz, Loud-Speakers, Phonographs and kindred noises, Tenants will not tolerate noisy apartments.

Cabot's Sound Deadening "Quilt"

has made thousands of apartments quiet. It has a record of over thirty years' successful use.

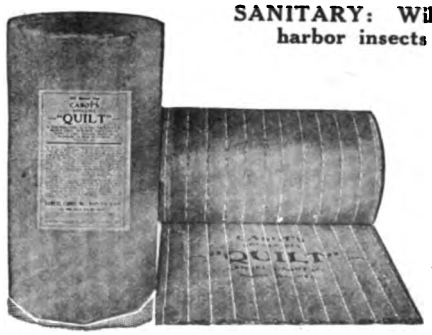
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FLEXIBLE: Easily applied anywhere. Fits into corners or around pipes and projections.

FIRE-RESISTANT: It will not burn. A genuine fire protection.

PERMANENT: Lasts as long as the house.

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Send for complete catalog on sound-deadening, giving drawings, photographs and specifications for construction.

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Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double-White, Waterproof Collopakes, Mortar Colors, etc.

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Selected List of Manufacturers' Literature

(Continued from page 162)

Pemberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Pemberthy Injectors.* Series of folders. Illus. Describe various types and models.
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

Republic Brass Co., Cleveland, Ohio.
6661. *Republic Two-Way Service Control.* Folder. Describes control lever of shower.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.
5951. *"Standard" Plumbing Fixtures for the Home.* Catalog. 64 pp. Describes fixtures for bathrooms, kitchens, laundries.
5952. *The Romance of "Standard" Advertising.* Booklet in colors.
5957. *"Standard" Double Faucets.* Folder in colors. Describes double nickeled brass faucets, swinging spout, etc.

Stanley Plumbing Supply Co., 932 Spring Garden St., Phila.
5991. *General Catalog.* Takes up complete line of plumbing and Heating supplies.

PORCHES

Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.

PUMPS

Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets.

Monarch Eng. Co., 244 East 1st St., Dayton, Ohio.
7161. *General Catalog.* Features two pole automatic switch.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus.

Novo Engine Co., Lansing, Mich.
4222. *Novo pumps.*

PYROBAR GYPSUM TILE

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS

American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus.

United States Radiator Corp., Detroit, Mich.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp.

Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

RADIATOR CABINETS

Hart & Cooley Co., New Britain, Conn.
3303. *H & C All-Steel Radiator Enclosures.* Proposition for dealers.

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4803. *T. & B. Radiator Cabinets.* Describes all-steel cabinet, insulated seat and humidifier.

RADIO PRODUCTS

Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment

A-B Stove Co., Battle Creek, Mich.
7251. *A-B Gas Ranges.* Catalog.

American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* 24 pp. Direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.

Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.*
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS

Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.

REGISTERS

Hart & Cooley Co., Inc., New Britain, Conn.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.

Majestic Company, Huntington, Ind.
3904. *Majestic Line.* Malleable Iron and Copper Steel.

Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF CONSTRUCTION—See Roof Trusses.

ROOFING MACHINERY

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

ROOFING MATERIALS

Eternit, Inc., Roberts Ave. and Stokley St., Philadelphia, also St. Louis, New Orleans and Boston.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.
2144. *Set For Another Century.* Folder. 6 pp. In color. Describes Eternit Asbestos Shingles for first roofing and re-roofing.
2145. *Eternit Asbestos Lumber.* 12 pp. folder.
2146. *Leadership Produces New Asbestos Shingle.* Announcing Horizontal method.
2147. *Instructions for Applying Eternit Asbestos Shingles.*

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.

Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6381. *Genasco Protective Products.* Booklet. 14 pp. Illus. Roof coating, fibre coating and asphalt putty.
6383. *They Weather All Weather.* Four colors. 24 pp. Latite Shingles and Genasco Sealbac shingles.
6384. *Locked On and New Roofs Over Old.* Booklets. 16 pp. Illus.
6385. *Sealbac Shingle Booklet.* 16 pp. Illus.
6386. *Look under the Surface!* 6 pp. Illus.
6387. *Phoenix Ready Roofing.* 6 pp. Illus.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*

Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Repair and remodeling work on time payment.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Copper & Brass Research Assn., 25 Broadway, New York.
59412. *Copper Roofings.*
5943. *Real Roofings.*

Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35515. *Roofing and Building Material Booklet.*

Keystone Roofing Mfg. Co., York, Pa.
3661. *The Magic Touch of Preston Shingles.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated.

Ruberoid Co., 95 Madison Ave., New York.
4483. *Roof-Coatings.* Folders: "Adding Years of Service," "A Roof in Liquid Form," "The Stop-Leak Cement."
4484. *Roll-Roofings.* Folder: "For Permanence."
4485. *Asphalt Shingles.* Folders: "Inexpensive Way to Add Value, Beauty and Protection to Your Home," "Ruberoid 4-Tone Hex-aganol Strips," "The Re-Roofing Shingle," "Harmony of Color," "Ruberoid Octab Strip-Shingles," "Ruberoid Square-Tab Strip-Shingles."
4486. *Asbestos Slates.* Folder.
4487. *Reasons for Handling Ruberoid.* Catalog.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4962. *Making Old Houses Into Charming Homes.* Colored.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5632. *Descriptive literature.*

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing shingles, spouting, gutter, etc.

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

Geo. L. Mesker & Co., Evansville, Ind.
6368. *Standard Steel Bow String Roof Trusses.*

RULES—See Drafting and Surveying

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29512. *Donley Salamanders.* Leaflet. Illus.

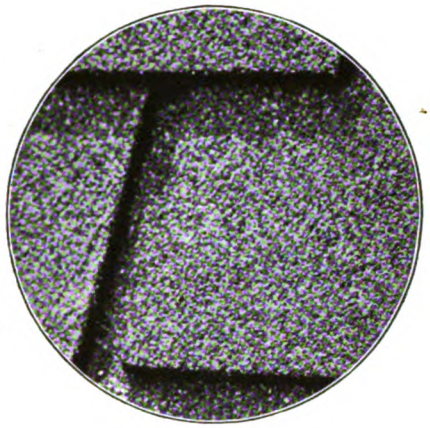
SAND

Jos. Murray & Co., Inc., 257-263 Avenue C, New York.
7001. *White Sand.* Shipped anywheres.

SANDERS

American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.

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Stops the Snow

The thick butts of Winthrops—the only tapered asphalt shingles made—lie flat and snug, proof against driving snows. Nor do accumulations of snow and ice affect the long life of Winthrops.

For rigorous winters no roof surpasses one of Winthrops. They do not crack, split, warp, nor curl. The thick butts—built up of extra coats of everlasting asphalt on both sides the heavy felt core—double the wearing thickness where exposure to wind and weather comes.

-the Big Butt Shingle

Winthrop
Tapered Asphalt Shingles

There's year round beauty in the non-fading, crushed slate surfaces in natural colors—eight solid and five combinations. The shadow lines, cast by the thick butts as shown in the picture, add to the effectiveness of both solid and blended roofs.

Winthrops carry the Class C label of the underwriters. They are easy and fast to lay. The wide color range makes it possible for you to select the proper roof for any building in any setting. Winthrop colors are unequalled.

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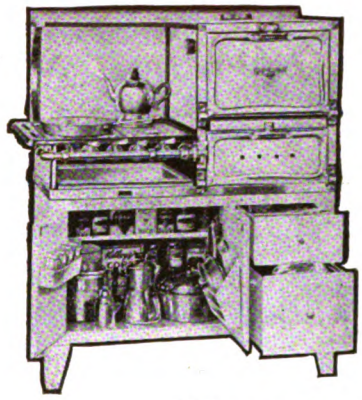
Winthrops are sold by lumber dealers everywhere, but if you will write us on your own letter head, we will send you a complete set of full size samples, including all colors, to show to prospects. Write for the set, today.

BECKMAN-DAWSON ROOFING COMPANY

1030 Brooks Building
223 West Jackson Boulevard Chicago, Ill.

Also Manufactured by
Lockport Paper Co. Lockport, N. Y.





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When a housewife looks at a Kab-Range, she sees new convenience, cleanliness and a saving of steps; the builder sees his apartment rented and a saving of costly space.

The Greenwich Lodge Apartments, shown above, are an example of the many successful developments where Kab-Range, the combined range and kitchen cabinet, is standard equipment. Built in Greenwich, Conn., by The Thomas J. Steen Engineering Corp., Mahlstedt-Steen Securities Corp., owner; E. D. Parmalee, New Rochelle, N. Y., architect.

The Kab-Range feature is also available combined with the famous HOTPOINT ELECTRIC RANGE—the finest electric range made.

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Los Angeles Office	**1507 West 7th. Avenue**

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KAB-RANGE

Kitchen Range and Cabinet Combined for Modern Homes and Apartments

B.A.-12

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Selected List of Manufacturers' Literature

(Continued from page 164)

Barker & Co., R. L., 642 W. Washington Blvd., Chicago, Ill.
2341. *Electric Portable Sander.* Bulletin BE. Illus.

Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.

Lakel Mfg. Co., Jenkintown, Pa.
7131. *Surface Finish.* For A. C. or D. C. current.

Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.
3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus.
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.
4113. *National Floor Surfacing Machinery.* Cat. 26 pp. Illus.
4114. *How and Where to Use Oak Floors.* 16 pp.
4115. *When You Have Scraped Along.* 8 pp.

Reid-Way Co., Cedar Rapids, Ia.
7191. *Reid-Way Sanders.* Used like a plane or inverted for jointing.

Wayvell Chappell & Co., 42 Jackson St., Waukegan, Ill.
6921. *Year to Pay Plan.* Automatic Floor Surfacing Machine.

SANITAS—See Wall Covering

SASH—See Windows

SASH BALANCES—See Hardware, Window

SASH CORDS

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus.
4502. *Catalog.* Includes samples of sash cord.
4503. *Sash Cord—Information and Specifications.*
4504. *Architectural Window Details.*

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

SCREEN MANUFACTURERS' MACHINERY

J. B. Crofoot Co., P. O. Box 783, Chicago, Ill.
6391. *Crofoot Screen Tacker.* Describes stapling machine that drives 77 staples with one loading. Deals with trial offer.

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.
3942. *Screens for Profit.* Folder. 4 pp. Illus.

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Copper & Brass Research Assn., 25 Broadway, New York.
5949. *Screens That Keep Them Out.* Describes screen-cloth of brass and copper.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures, etc.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEPTIC TANKS—See Plumbing Equipment

SEWAGE DISPOSAL—See Plumbing Equipment

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHEET METAL PRODUCTS—See Metals

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SINKS—See Kitchen Sinks, also Plumbing Equipment, also Bathroom Fixtures.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney Cutting Products Corp., 507 5th Ave., New York.
3631. *Kenney Needle Shower.* Catalog A. Illus. Concerns several types of body showers.

Republic Brass Co., Cleveland, Ohio.
6661. *Folder Two-Way Service Control.* Folder. Describes control lever of shower

White Steel Sanitary Furniture Co., Dept. 36, Grand Rapids, Mich. New York Office and Display, Room 409, Columbia Bank Building, 507-5th Ave. Mr. Harry Parker in charge.
5342. *White Steel Shower Curtain Poles.*

SKYLIGHTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6369. *Mesker Skylights.*

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated literature* on stair treads of Alberene Stone.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

STAIRWAYS, MOVABLE

Bessler Disappearing Stairway Co., Akron, O., or 220 E. 41st St., New York.
2432. *Bulletin. Illus.* Price List.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

Marschke Co., 301 Pioneer Bldg., St. Paul, Minn.
6701. *Marschke Stair.* Describes balanced folding stair.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus

Mesker & Co., Geo. L., 30 Ingel St., Evansville, Ind.
6365. *Catalog.* Mesker Store Fronts. 36 pp. Cuts and details.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Hghts., Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.
24612. *The Renaissance of Colored Stucco.* Booklet. Illus.

Elastica—see listing under U. S. Material Co.

Flint Rock Stucco Co., Arcade Bldg., Dayton, O.
5682. *Flint-Rock All Mineral Stucco.* Oxy-Chloride Cement.
5683. *Architex Finish.* Catalog. Illus. Describes specially prepared colored stucco finish coat.

Lehigh Portland Cement Co., Allentown, Pa.
3774. *28 Better Homes.* Lehigh Cement Small House Competition.
3772. *Permanent Satisfaction in Your Building.* Illus. Book
3774. *28 Better Homes.* Describes winning designs in Lehigh Cement Co.'s Competition for Concrete Masonry Houses.
3775. *Builder Better Homes.* Describes construction of four of the prize winning designs.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.
4354. *A Book of Beautiful Homes.* Concrete masonry and exterior finishes.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

U. S. Materials Co., Chicago, Ill.
6071. *Elastica, the Waterproofed Stucco.* Describes product manufactured by this company in Chicago, the American Materials Co. in New York, the Art Stucco Materials Co. in Detroit, and Northwest Materials Co. in St. Paul.

STUCCO AND PLASTER BASES

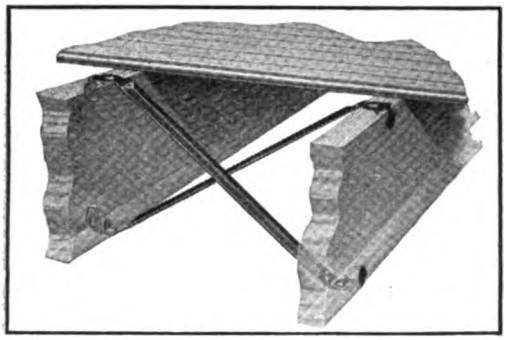
American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two of Asphaltum, two of Java sisal fibres.

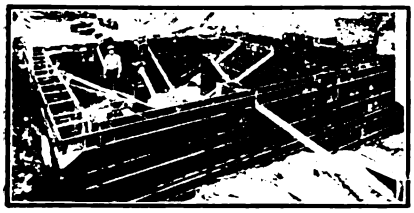
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6389. *Genasco Stucco Base.* 16 pp. Illus. Stucco Base for use with Portland Cement or Magnesite Stucco.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

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Service Proves the Value of TRU-TYE Steel Bridging





Blaw-Knox Steel Forms are economical for building light walls and foundations, saving the cost of form lumber — every contractor should own a set.

Users of TRU-TYE Steel Bridging are enthusiastic. Economy and speed of installation are indicated in many letters received from contractors. They say—

"a great saving of labor in installation and a neater and stronger job. "GRIMM BROTHERS, Canonsburg, Pa."

"a great time saver—one of our men installed your bridging in four houses in three hours' time. "NAVARRO COMPANY, Pittsburgh, Pa."

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Blaw-Knox Tru-Tye Steel Bridging takes the place of wood, eliminating cutting, fitting, nailing and awkward handling. The popularity of Tru-Tye is spreading like wild-fire because it speeds up the work and reduces the cost of bridging.

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BLAW-KNOX COMPANY

629 Farmer's Bank Bldg. Pittsburgh, Penna.

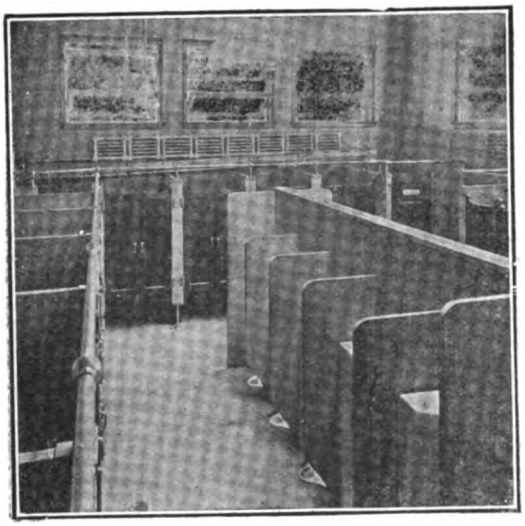
New York Chicago Baltimore Buffalo Cleveland
Birmingham Detroit Philadelphia

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ACID-ALKALI-AND-FLAME-RESISTANT NON-ABSORBENT NON-CONDUCTING

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Louisiana Avenue Comfort Station, Baltimore, Md.; Alberene Stone Throughout.

FOR sanitary work—toilets, urinals, and the like—no material even approaches Alberene Stone for all-around excellence. It is the best possible investment for such service.

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QUARRIED FOR OVER 40 YEARS
FOR SANITARY WORK, STAIR TREADS AND LANDINGS
STANDARD ALSO FOR LABORATORY EQUIPMENT ELECTRICAL CONSTRUCTION, LAUNDRY TUBS AND SINKS

Selected List of Manufacturers' Literature

(Continued from page 166)

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
24613. *Looking Behind the Stucco.* Booklet. Illus. Story of Bishopric Base, reinforcing background for stucco and plaster walls.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.
2482. *Bostwick Economy.* Booklet. 30 pp. Non-technical discussion of Bostwick products.

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

Celotex Company, 645 N. Michigan Ave., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex*, and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6822. *Literature and Samples.*

Mason Fibre Co., 111 W. Washington St., Chicago, Ill.
6971. *All-Wood Manufactured Lumber.* In standard sizes 4'x8' and upwards. For sheathing, plaster base, interior finish or insulation for roofs and floors.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

National Steel Fabric Co., 707 Union Trust Bldg., Pittsburgh, Pa.
7171. 1926-1927 *Overcoat Plan.* Describes re-inforced Stucco Overcoating.

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

STUCCO DASH

C. K. Williams & Co., Easton, Pa.
6602. *Verdolite Stucco Dash.*

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TAPES—See Tools

TELEPHONES—See also Electrical Equipment

Graybar Electric Company (formerly Supply Dept., Western Electric Co.), 100 E. 42d St., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. 1926 *Catalog.* For electrical contractors.

THERMOSTATS—See Heating Equipment

TILES, FLOOR AND WALL

Lloyd Floor and Wall Tile Co., P. O. Box 5064K. Kansas City, Mo.
5881. *Tile Catalog.* Describes Ceramic Mosaic Floor Tiles, Glazed Wall Tiles and tile trimmings sold direct.

TILE MANUFACTURE

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

Morterless Tile Machine Co., 21-22 Carrillo Bldg., Santa Barbara, Calif.
6531. *Build with Interlocking Concrete Tile.* Describes machine, gives details and typical installations. 12 pp. Illus.

TILE, STEEL

General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TIRES

Kelly-Springfield Tire Co., 250 West 57th St., New York, N. Y.
6901. *Kelly-Springfield Truck Tires.* Tires for standard sizes.

TOILET INCINERATORS—See Incinerators

TOOLS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.

Empire Level Mfg. Co., 313 1st Ave., Milwaukee, Wis.
6271. *Empire Levels.* Patented interchangeable vial case.

Fox Supply Co., Brooklyn, Wis.
3164 *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.

Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.

Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Cheney Hammers and Prentiss Vises.*

Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4425 *Woodworking Vises and Manual Training Benches.*

Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524. *Sargent Planes.* Catalog. 64 pp. Illus.

Starrett Co., The L. S., Athol, Mass.
5981. *Catalog No. 23 "P".* Describes Stainless Steel Tape.
5982. *Starrett's Stainless Steel Tapes.*

Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.

White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

Wodack Electric Tool Corp., Dept. BA, 24 S. Jefferson St.,
7021. *Wodack Portable Electric Groover.* For Weatherstrip installations, etc.
7022. *Wodack Portable Electric Drills and Grinders.*

TOOLS, AIR

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, MARKING—See Marking Devices

TOWEL RACKS—See Bathroom Fixtures

TRAPS—Steam and Radiator

Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRESTLES—See Scaffolding

TRUCKS—MOTOR

Chevrolet Motor Co., Detroit, Mich.
6091. *One Ton Truck Chassis.* Time payment plan operated through dealers.

Graham Brothers, Detroit, Mich.
6451. *Literature.* Describes Graham Brothers' trucks sold by Dodge Brothers dealers.

International Harvester Company of America, Inc., 6060 S. Michigan Blvd., Chicago.
68711. *International Harvester Trucks.* High speed and heavy duty types.

TRUCKS, MOTOR—SUPPLIES

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.

TRUCKS, MOTOR—TIRES—See Tires

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment.

Bridgeport Brass Co., Bridgeport, Conn.
2516. *Bridgeport-Keating Flush Valve.* Literature. Includes roughing-in diagram and information on service plans and guarantee.

Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus.

VAULT LIGHTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus

VENEER AND VENEERING

Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2542. *Breezo Booklet.* Form 2320. Describes fan unit for domestic use. Installed in kitchen window.
2543. *Catalog No. 860.* Fans, Blowers, and Exhausters.

Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator.* Provide specifications on contract work.

Hart & Cooley Co., Inc., New Britain, Conn.
3304. *H & C Cold or Warm Air Ventilators.*

Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.

Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

VISES

Prentiss Vise Co., 106-110 Lafayette St., New York.
6021. *Prentiss Vises and Cheney Hammers.* Described in literature.

WALLBOARD

Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Uses and methods of handling *Beaver Board.*

Insulite Co., Builders Exchange Bldg., Minneapolis, Minn.
6823. *Literature and Samples.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.

WALL CONSTRUCTION—See Building Construction

WALL COVERING

A. C. Horn Co., Long Island City, N. Y.
65913. *Tx-Crete.* Texturing material. Folder. For walls and mural decorations.

Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WALLPAPER

Wallpaper Mfrs. Assn., 461 8th Ave., New York.
4901. *Walls and Their Decorations.* Directs attention of builders to wallpaper as an interior decorating medium.
4902. *Faster Sales and Quicker Rentals.* Is concerned with the problem of the builder in merchandising houses.

WASTE DESTROYERS—See Incinerators

WATER GAUGES—See Plumbing Equipment

WATER HEATING SYSTEMS

Copper & Brass Research Assn., 25 Broadway, New York.
5942. *A Real Home.*

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Yep,— used a Cheney f'r years!

"I allus did think a Cheney was 'bout the best hammer made 'n' I've never changed my mind all these years."

"*Never* seem t' get as tired swingin' a Cheney—'s got a "hang" that's just right 'n' a head that's stood f'r a heap of punishment in my work—lemme tell yuh! But good tempering accounts f'r that—'long with th' good tool steel they put into Cheneys. You can't beat these clear hickory handles with the "Never-Slip" grip, either, f'r comfort in th' hand or f'r looks."

"Yep, I'm f'r a Cheney, first 'n' last—'n' you'll be, too, soon 's you use one. It doesn't take as many years as I've been swingin' a Cheney t' show yuh, neither—one day's work 's aplenty."

388

PRENTISS VISES
PRENTISS
106-110 LAFAYETTE ST. NEW YORK CITY
VISE CO.
CHENEY HAMMERS

The heater for Winter work



Burns any fuel

For practical use on Winter work this Buffalo Direct Fired Unit is ideal. It burns shavings, wood, coal, coke, paper, waste or other materials. It does not require bolting down, nor installation. Can be moved from place to place easily.

Heats large area

The Buffalo Breezo Fan draws air in near the floor, passes it through the heater and out through the discharge pipes at the top, thus supplying forced heat over a large area.

Write for detailed specifications and prices.

BUFFALO FORGE COMPANY
476 Broadway Buffalo, N. Y.
In Canada—Canadian Blower & Forge Co., Ltd., Kitchener, Ont.

"Buffalo" Direct-fired Unit Heaters

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Selected List of Manufacturers' Literature

(Continued from page 168)

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.
Dahlquist Mfg. Co., 30 West Third St., Boston, Mass.
7291. *Aquatherm Data Book.* Lists several types of gas, kerosene, electric, and pressure hot water boilers.
Humphrey Co., Kalamazoo, Mich.
6031. *Humphrey Automatic Gas Water Heaters.* Literature. Covers entire line.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.
Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Range Boilers.* Literature. Galvanized and copper types.
5892. *Storage Systems.* Literature. Describes automatic, gas-fired types.
Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING

Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.
6861. *Anti-Hydro Formula.* For hardening, waterproofing, and damproofing concrete, stucco and cement mortar.
Barber Asphalt Co., 1600 Arch St., Philadelphia, Pa.
6388. *Genasco Standard Trinidad Built-Up Roofing Specifications.*
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper*
Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers dampproofing, clear brick waterproofing, and clear cement waterproofing.
2596. *Combination Color Card.* Waterproof Collopakes.
General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus.
A. C. Horn Co., Long Island City, N. Y.
6598. *A.I.A. File Folder.* Data on dampproofing products.
Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.
Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.
Toch Bros., 110 E. 42nd St., New York
5331. *Specifications.* 60 pp. illus catalog. Specifications for dampproofing, waterproofing, enameling.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit.
4781. *Spread Sunshine Inside.* Book. Describes methods for light saving through use of light-reflecting enamels.

WATER SOFTENERS—See Water Systems

WATER STORAGE—See Water Heating; also Water Systems.

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.
Duro Pump & M'f'g. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.
Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Fort Wayne Engineering Co., Fort Wayne, Ind.
3341. *Paul Water Systems.* Describes sies for various types of wells and cistems.
6342. *Paul Soft Water Generator.* Describes high capacity, small sized softening outfit.
6343. *The Old Oaken Bucket Up-to-Date.* Booklet. Details for builders, dealers and home owners.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Monarch Eng. Co., 244 E. 1st St., Dayton, Ohio.
7161. *General Catalog.* Monarch Water Softener with a single valve.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 58. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Alimetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.
Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.
Chamberlain Metal Weatherstrip Co., Inc., Detroit, Mich.
5551. *Chamberlin Metal Weatherstrip Details.* Catalog. Illustrated.
Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.
Federal Metal Weather Strip Co., 1238-50 Fullerton Ave. Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.
Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.
Malin, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINCHES

Stimmel Winch & Hoist Co., 544 West 22nd St., New York, N. Y.
7281. *Spur Geared and Worm Geared Winches.* Several sizes.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*
Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2873. *Standardized Steel Casements.* Catalog. 2-26. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.
Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Steel Casement Windows.* 24 pp. Illus. New edition. Includes photographs and detail drawings.
2922. *Fenestra Basement Windows.* Booklet. 16 pp.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.
Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* Takes up complete line Factrolite Wire Glass and Pentecor Wire Glass.
4013 *Pentecor.* Combination rib and prism wire glass.
4012. *Factrolite.* Describes this type of diffusing wire glass.
Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD—See Frames, Door and Windows

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.
American Saw Mill Mchy. Co., 61 Main St., Hackettstown N. J.
2171. *Catalog No.* 21. Describes circular saws of all sizes.
2172. *Contractors' Bulletin No.* 82.
2173. *General Catalog No.* 25. Illus. 192 pp.
Atkins & Co., E. C., Indianapolis, Ind.
2302. *Saw Sense.* Book. Saws, saw tools, saw specialties, hack saw blades, machine knives, saw setting devices, etc.
2303. *Mill Saws.* Band and circular saws, dado heads, machine knives, grinding wheels for contractors.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.
Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.
Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. *Catalog,* 850-54. Describes the *Buffalo* Woodworker.
Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron.* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.
Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.
Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.
DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.
Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.
Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.
Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 20 pp. Describes model No. 8, 9 and 12.
Michel Electric Hand Saw Co., 1801 Berenice Ave., Chicago.
6161. *Circular R-3.* Describes applications of *Skilsaw,* a portable electric hand saw.
Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.
Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.
Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size,
4582. *Booklet.* 12 pp. Illus. Gives additional information.
Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.
Wodack Electric Tool Corp., Dept. BA, 24 S. Jefferson St., Chicago.
7021. *Wodack Portable Electric Groover.* For Weatherstrip installations, etc.

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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You Can Pour Concrete in Freezing Weather When You Use "ANTI-HYDRO"

This entire building was constructed between November and February with the aid of "ANTI-HYDRO."

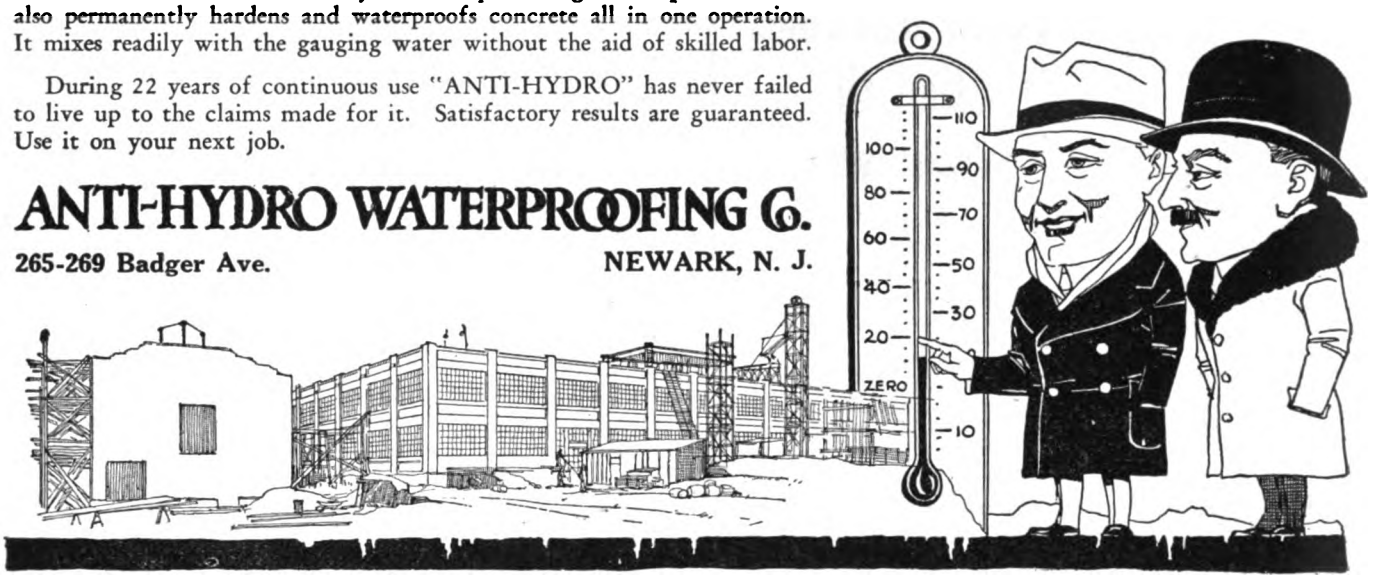
"ANTI-HYDRO" lowers the freezing point of concrete and cement mixtures to 17 degrees below the freezing point of water, making it possible to continue concreting, cementing and masonry work during freezing weather, instead of shutting down the job with a loss of valuable time and costly delays.

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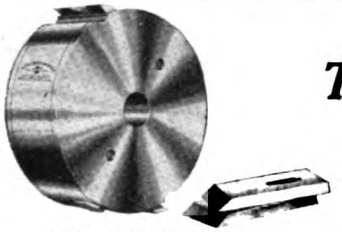
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Cylinder Cutter Head



Circular Mitre Saw with Cleaner Teeth



Grinding Attachment

This Season More Than Ever

"YOU NEED A HUTHER DADO HEAD"

With the brisk activity of the winter season just ahead, you need a Huther Dado Head to speed up your production to the point of maximum profit.

With the Huther Bros. Dado Head the most complex grooving and cutting is made easy.

There are other Huther saws, too, that will simplify other saw problems.



Cutter Head



Dado Head



Thin High Speed Steel Knives

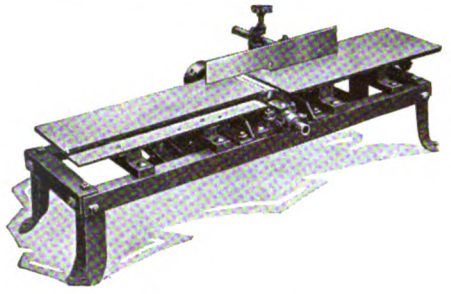
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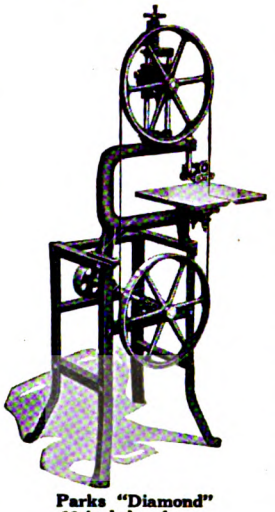
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Parks
"Little Daisy"
Bench Jointer
was $75
NOW ONLY
$60



Parks "Diamond"
16-inch band saw
only
$50

Parks machines that fit *your* work

Both the large and small shop need these handy Parks machines.

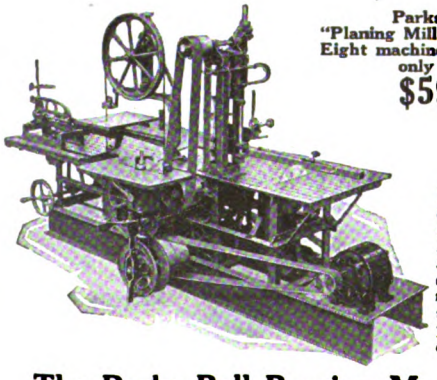
The big shop puts the Parks "Little Daisy" bench jointer on every bench and saves employees' time in trips to and from the benches to a big central machine. Several small Parks "Diamond" band saws may be set conveniently around the shop and save many hours of high-priced time with but small investment. Then a small Parks "Economy" sander should be in every department, saving back-tracking of work for re-sanding.

In the small shop where space and capital are limited Parks small machines and Parks small prices make the difference between a big success or a failure. No shop large or small can afford to turn out by hand what a Parks can do.

Get one Parks or several—but get a Parks!



Parks "Elonomy"
24-inch Sander
only
$75



Parks
"Planing Mill Special"
Eight machines in one
only
$590

Write for complete details on these machines, copy of Parks catalog showing individual and combination machines for every need and name of your nearest Parks dealer.

The Parks Ball Bearing Machine Co.
Station "A," Cincinnati, Ohio
Canadian Factory: 208 Notre Dame East, Montreal, Can.

PARKS
WOODWORKING MACHINES

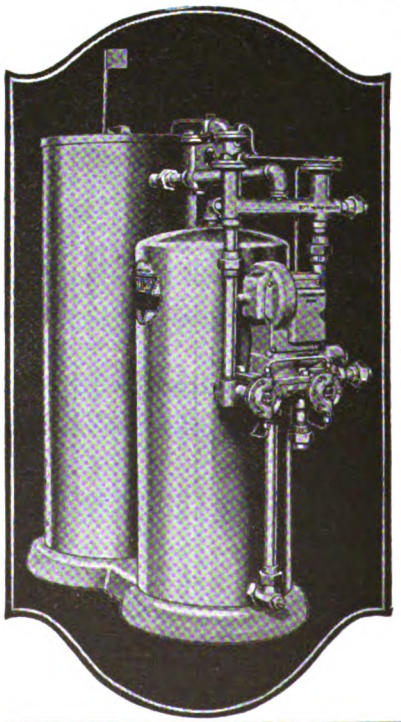


Softened Water *Comes First!*

A RECENT SURVEY shows that *thirty-six out of fifty* housewives voted softened water the *first* essential in any home.

Housewives know that pure softened water in the kitchen, bathroom and laundry brings more health, comfort and convenience to every member of the family. The—

DURO *Automatic* Water Softener



costs far less to install than the disease-breeding cistern and its costly double plumbing. It obsoletes hand operated types.

Fully covered by the Duro Guarantee Bond.

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THE DURO COMPANY
Monument Avenue
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Duro Guarantees Satisfactory Water Service

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AUTOMATIC CELLAR DRAINER
Improved Model "R"

PENBERTHY PRODUCTS

Where Water Supply is Metered



install a Penberthy Cellar Drainer. It requires less water than other drainers and can be used with low pressure when necessary—as low as 10 lbs. City water used.

The Model "R" is compact and easy to install, with a wide range of uses. It is good for draining not only cellars, but elevator pits, excavations, tanks and to keep boiler pits dry and sanitary.

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ESTABLISHED 1886

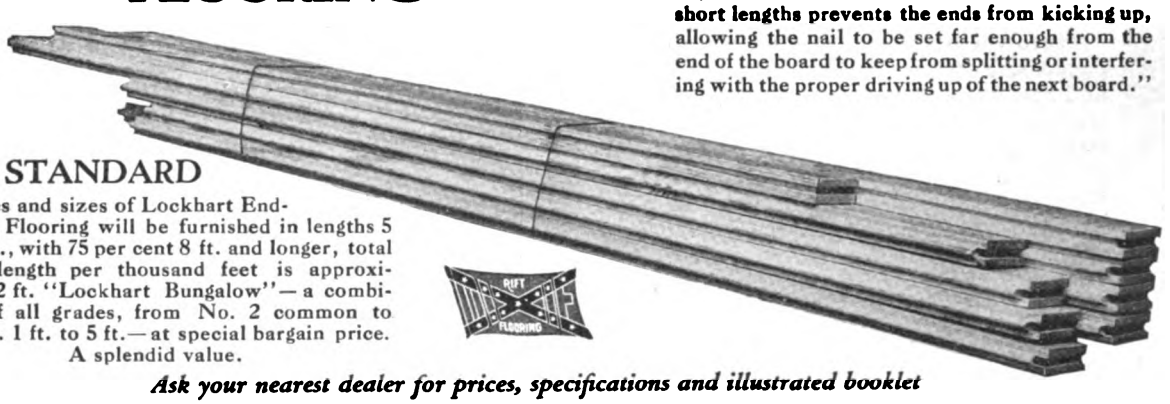
1260 Holden Avenue : : Detroit, Michigan
Canadian Plant: Windsor, Ontario

HERE'S WHAT ACTUAL BUYERS SAY ABOUT LOCKHART END-MATCHED FLOORING

"We find the End-Matched of quite a decided benefit to us as against the usual butted-end yellow pine flooring. There is a decided saving in the use of end-matched, etc."

"Received car containing some "A" grade end-matched flooring which was shipped by the Jackson Lumber Company. This is by far the prettiest flooring we have ever had. It would seem very difficult to make flooring superior to this."

"The Jackson Lumber Company's End-Matched stock comes more uniformly manufactured than any we have been able to secure. End-Matching short lengths prevents the ends from kicking up, allowing the nail to be set far enough from the end of the board to keep from splitting or interfering with the proper driving up of the next board."



NEW STANDARD

All grades and sizes of Lockhart End-Matched Flooring will be furnished in lengths 5 ft. to 16 ft., with 75 per cent 8 ft. and longer, total average length per thousand feet is approximately 12 ft. "Lockhart Bungalow"—a combination of all grades, from No. 2 common to B. & Btr. 1 ft. to 5 ft.—at special bargain price. A splendid value.

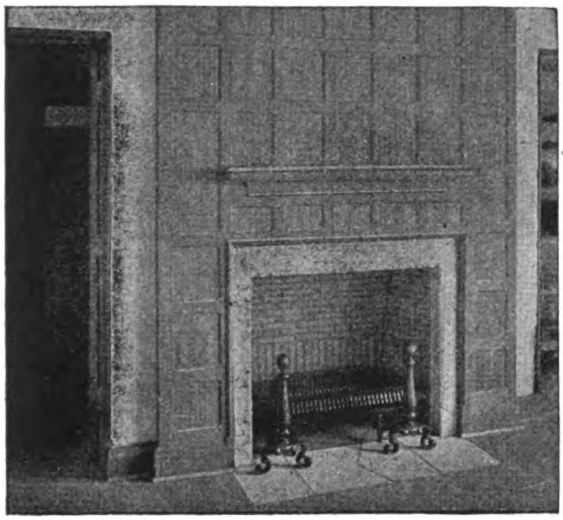
Ask your nearest dealer for prices, specifications and illustrated booklet

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LOCKHART *Manufacturers* ALABAMA

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Success Assured in a Donley Built Fireplace

THE above photograph is the last one in a series showing the building of a better fireplace. This fireplace was built according to Donley Construction Plans as given in the Donley Book of Fireplaces. It has a Donley Damper to assure proper draft action, which together with proper construction prevents smoking and soot smudging. A Donley Ash Dump removes the ashes quickly and conveniently. And last of all it is finished off with a Donley Fire Basket and Andirons.

Here's a fireplace that's an assured success. You can build such a fireplace and rest assured your customers will be well satisfied. The complete set of construction plans, excellent designs, photographs and complete description of Donley Fireplace Equipment is to be found in the Donley Book of Fireplaces.

This valuable book is yours for the asking. The Donley Catalog will also be sent if requested.

The Donley Brothers Co.
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DONLEY DEVICES
Complete the Home



Using Casements?

Chances are, then, that you're having more or less trouble with operation through inside screens, with the high cost of hardware, with proving to prospective buyers or tenants that the casements are all they should be.

Casements *can* be one of the best selling points you have. The right hardware, makes the difference between success and trouble.

These three booklets—written from *your own* standpoint—show how many successful builders are handling these problems with greatly increased profits to themselves by using Win-Dor Casement Hardware for both wood and metal casements.

Send along the coupon and find out what these builders know, why they have found Win-Dor works best at the least cost. These books are free for the asking. Better look them over. They will save you money.

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THE CASEMENT HARDWARE COMPANY
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Please send me a copy of "Setting the Stage for Easier Selling" together with a copy of your specification data and your catalog.

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The Queensbury Hotel, Glens Falls, N. Y. Ballroom floored with Maple

Nature's lasting beauty for your floors

Nature itself puts beauty and life and tenacious durability into Maple, Beech and Birch. The wind, the sunshine and the rain of the northern climate gives these woods their amazing toughness and firmness, with their close-grained compactness that invites a perfect polish and resists the hardest wear.

With the proper polish to enhance their natural hues, they provide a floor which appeals to the eye and mind. The architect likes them, because they harmonize with any scheme of decoration and wall finish. The builder likes them because they justify his good work.

Smooth, quickly cleaned, such a floor is easily kept free from dust and dirt, and steady wear only adds to its pleasing glossiness of surface.

Lay one of these floors right over your present floor, if you like. This can be done, regardless of the kind of floor you have.

Our Service and Research Department is a clearing house for accurate information about the utility and characteristics of Maple, Beech and Birch flooring. This information is freely given to any user of **MFMA** flooring. Let us assist you with your flooring problems. In order to co-operate in every possible way we have prepared the following booklets for your use. Any one or all will be gladly sent to you free upon request.

- ☐ *Color Harmony in Floors*
- ☐ *The Floors for Your Home*
- ☐ *Three Native Hardwoods of Sterling Worth*
- ☐ *How to Lay and Finish Maple, Beech and Birch Floors*
- ☐ *Floors for Educational Buildings*
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MAPLE FLOORING MANUFACTURERS ASSN.
1055 Stock Exchange Building, *Chicago*

Guaranteed Floorings

The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use.

MFMA

Floor *with* Maple
Beech *or* Birch



Whitco Equipped Sash Cannot Sag

Just notice how that part of the Whitco hinge which attaches to the sash extends across the joint between the stile and the rail, reinforcing the joint and binding the two parts of the frame rigidly in position.

Then notice how Whitco supports — not suspends — the sash.

These are two pretty good reasons why a Whitco equipped sash cannot sag.

Whitco is sold by dealers in builders' hardware

VINCENT WHITNEY COMPANY
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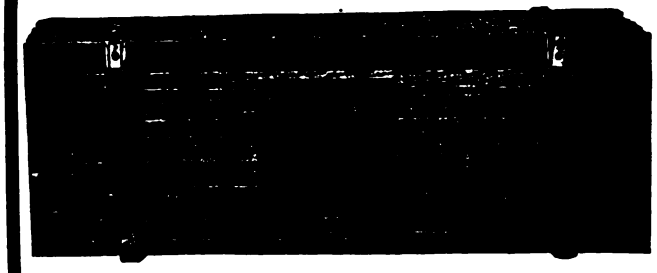
"Whitco makes it easy and safe to clean both sides of the casement from within the room"

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KEYLOCK For Stucco and Plaster

The Only Complete Base Packed in Bale Form

Keylock comes to you in convenient 15" x 48" sheets, packed 20 sheets to the bale of 100 sq. ft. covering capacity. This modern Base saves storage room and handling costs and is the most easily applied of all unit base materials.





Keylock Base is made from highest quality heavy, fibre board coated with asphalt mastic into which selected beveled wood strips are firmly imbedded. Mortar penetrates only as far as the backing yet forms a perfect clinch.

Three Times Stronger Than Ordinary Sheathing

Keylock combines strength with practical economy. It can be nailed direct to the studding, as it more than replaces sheathing, building paper and furring strips The overlapping flap upon each sheet gives continuous backing without air holes or openings, an exclusive Keylock feature. Keylock excludes heat, cold, moisture and vermin. It's the "Base without Waste" for permanent stucco or plaster construction.

FLINTROCK STUCCO

This is a finely ground, plastic magnesia cement of extreme durability and tenacity, packaged in steel drums. A complete mix, requiring only water; is giving satisfaction everywhere.

ARCHITEX FINISH

PLASTIC MAGNESIA

This beautiful finishing coat is available in many rich, fadeless colors in steel drums.

Save freight—order Keylock, Flint Rock and Architex Finish in "mixed cars," at carlot discounts.

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Send full information regarding

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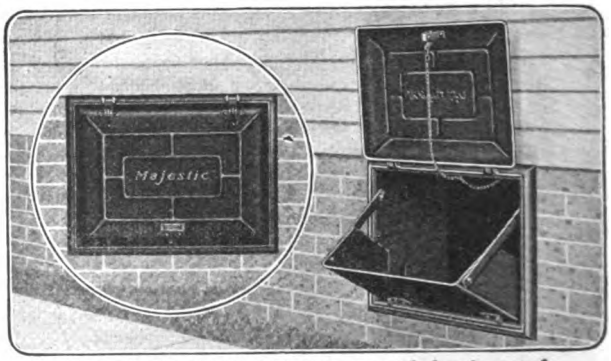
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☐ Dealer ☐ Contractor ☐ Homebuilder

why the Majestic is the leading coal window value

THE Majestic is break-proof and rust-proof—and proof against future repairs and expense. Frame and hinges are Certified Malleable Iron—doors are heavy pressed electro-galvanized steel—body and hopper are Keystone Copper Steel. More Majestics are in use than all other makes combined. When you install a Majestic, you are giving the utmost in value—the coal window that has become an identifying mark for a modern home.



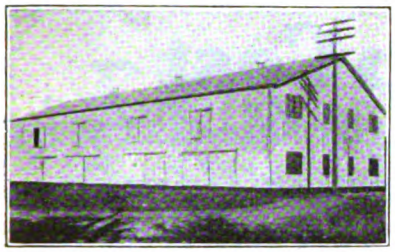
This is the No. M101 Majestic open and closed—one of several new and improved styles. All are shown in our new catalog, together with many other Majestic products you ought to use in the homes you build. Write for our new catalog and prices.

THE MAJESTIC CO. - Huntington, Ind.

Majestic Coal Window

The Mark of a Modern Home

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Goshen Mfg. Co., Goshen, Ind.
International Design

LET INTERNATIONAL STEEL SERVICE *Be Your "Star Salesman"*



Lapiner Motor Co. Bldg., Mason City, Iowa
International Design

When you bump up against a "hard prospect," one who keeps putting off the making up of building plans—call in International Steel Service. Nine times out of ten your prospect's reasons for not signing are: He hasn't any plans, or the plans he has don't suit him.

That's where International steps in. We furnish you FREE building designs drawn up by our staff of experts — men who know just how and where to cut down your building costs, while at the same time designing a building that will prove a "knock out" to your prospect.

In addition we furnish you estimates on the steel and iron work in the building. Our immense facilities enable us to quote a low price on our products and assure you of prompt delivery of high grade steel and iron work.

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Steel Columns
Steel Girders
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PRODUCTS

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Write for our booklet containing over 50 illustrations of International designed garages.

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A Week's Work in One Day

Here's Experience to Guide You

Write for our free booklet, "A Day's Work." This will show how the FREE-O-DUST Super Surfacer earns $30.00 to $50.00 per day the year round. Sands wood and composition floors.

Manufacturers of Floor Surfacing Machines for 20 Years



ELECTRIC ROTARY MACHINE COMPANY
3833 W. Lake St., Chicago, Illinois
Branch Office — New York City

ELECTRIC ROTARY MACHINE



For sanding wood floors where an exceptionally high finish is required — also for surfacing and polishing marble, terazzo, etc., waxing, polishing, and scrubbing. A different attachment for each operation.

ELECTRIC ROTARY MACHINE CO.,
3833 W. Lake Street, Chicago, Ill.

☐ Please send free literature on FREE-O-DUST Super Surfacer shown at left.

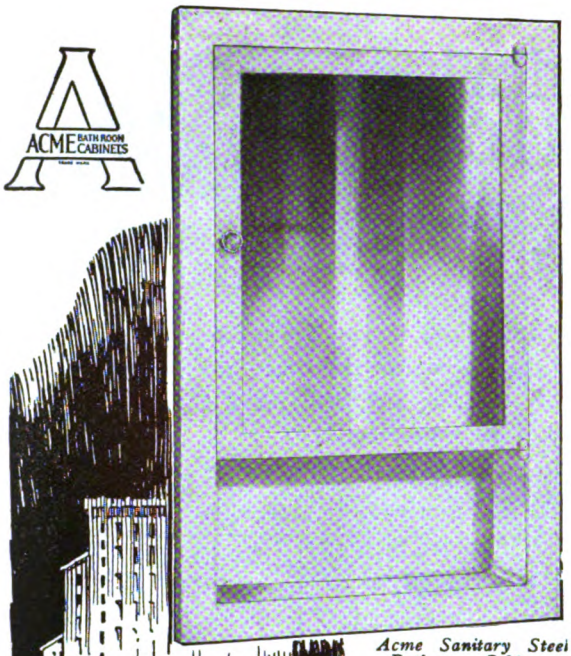
☐ Please send free literature on Electric Rotary Machine at right.

NAME .....

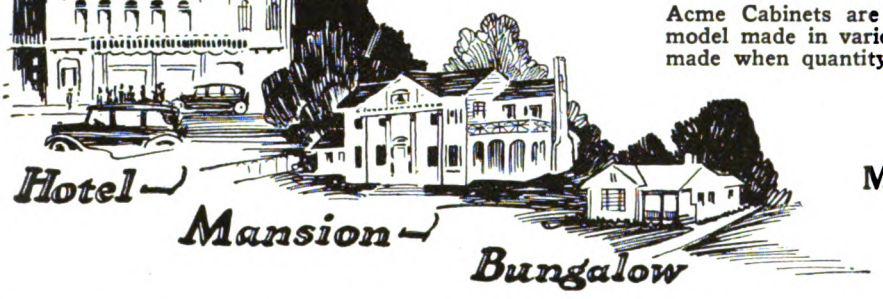
ADDRESS.....**B. A. 12-26**

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ACME BATH ROOM CABINETS



Acme Sanitary Steel Bathroom Cabinet Model B



Low In Cost — but Selected for Quality by America's Finest Homes

ACME SANITARY BATHROOM CABINETS

Acme Sanitary Steel Bathroom Cabinets, while low in cost, add beauty to any bathroom—whether it be in a Fifth Avenue mansion, a modest suburban bungalow, or a magnificent hotel.

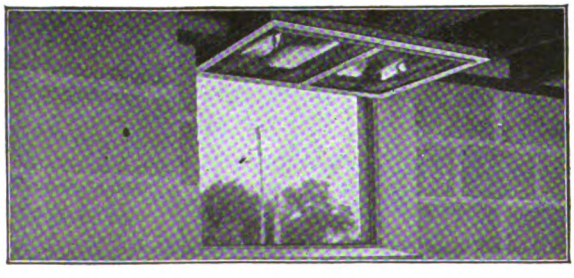
Acme Cabinets are *permanently* beautiful and sanitary. The baked-on white enamel will not peel or crack. The cabinet is made of cold rolled steel—electrically welded into a solid unit. Original trimness not lost through years of service—not affected by dampness or weather. Rounded corners make cleaning easy and increase sanitation. Plain or beveled plate glass mirrors.

Acme Cabinets are built in 10 different models—each model made in various sizes. Special sizes and models made when quantity warrants.

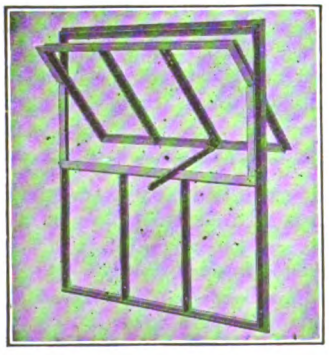
Write for Catalog A-4

MORTON MANUFACTURING COMPANY

5134 WEST LAKE STREET
CHICAGO, ILLINOIS



Bayley Window for basement.



Bayley Utility Window.

A Profit Opportunity

Bayley-Springfield Steel Windows

BAYLEY-SPRINGFIELD Steel Windows are easily sold wherever they are shown. Construction features make for strength and economical installation. Requires less time and labor to install than wood windows and therefore profits are greater. Quantity production makes it possible to price at very close figures.

Windows for Basements

For basements in residences, apartments and other buildings. Just the window for side walls in garages and other small buildings. Cost no more than wood, yet give 50 per cent more light—are fire-proof; resist burglar entrance; do not warp, stick or sag. Holes in steel jambs for screens. Made in four standard sizes.

Utility Windows

This Utility Window is moderate in cost. Usable in buildings of many types and for many purposes. Ideal for garages and similar small structures. Ventilators center pivoted. Each unit has four lights 12 x 20 and two lights 13 x 20.

Ventilator is equipped with standard Bayley-Springfield Lock Bar which holds ventilator in any desired open position and also locks it when closed.

Write us for attractive dealer proposition

The Wm. BAYLEY COMPANY

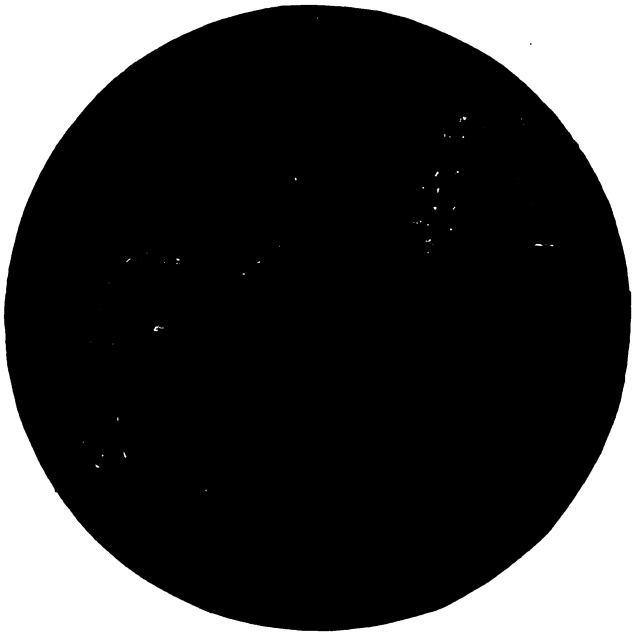
126 North Street, Springfield, Ohio

Sales Agencies in Principal Cities.

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ARKANSAS SOFT PINE

Satin-Like Interior Trim



For SNUG MITRES *For* TIGHT JOINTS
For EXACTING CLIENTS

...The Camera Says "*It Does Not Split*"... The Carpenter Says "*It Cuts Clean*"...The Cabinetworker Says "*It Is Workable*"... The Customer Says "*It Is Perfect Woodwork*" ...The Architect Says "*It Gives My Clients Perfect Woodwork at Moderate Cost*"

Arkansas Soft Pine is a super-fine quality of close grained, fine textured wood. Virtually free from rosin, it absorbs stains and enamels with exact uniformity. Its elastic, tough fibre and absence of hard streaks are insurance against raised grain and guarantee a finished surface of permanent, velvet-smoothness. Arkansas Soft Pine is scientifically dried in modern moist air kilns. It is free from cupping, warping and twisting tendencies, and "stays put." It saves labor costs, being readily workable, and responds to edged tools in a way that commands the preference of cabinetworkers.

May we submit convincing evidence in the form of natural and finished samples, technical literature? Write now!

Arkansas Soft Pine is trademarked, grademarked and sold by dealers and planing mills east of the Rockies.

ARKANSAS SOFT PINE BUREAU

1193 Boyle Building, Little Rock, Ark.

PRIVATE WATER SYSTEMS



These three pumps are specifically designed for the home building field. Upper left is "The Cub," lower left the "Freshflo" and immediately above the "Unisystem" No. 40. Each DAYTON Built and DAYTON Guaranteed.

How Could You Sell a House With No Water System?

A HOUSE without a water system is a useless shell—so much space that will never be tenanted. And a house with a leaky, balky water system is a "white elephant" on its owner's hands—uncomfortable to live in and almost impossible to sell. Reasons enough to be careful when you choose a water system.

Whether for small homes, large summer hotels, suburban schools or country clubs, there is a DAYTON that exactly fits the requirements of hard service, price and capacity. *You can depend on a DAYTON.* It stays on the job year in and year out—rendering noiseless, automatic, trouble-free service.

Our latest catalog showing the complete DAYTON Line is ready for you. You should have one close at hand for ready reference. Why not send for one—NOW?

THE DAYTON PUMP & MFG. CO.
DAYTON, OHIO, U. S. A.



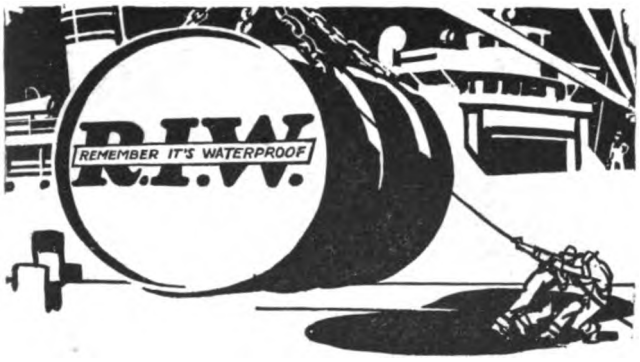
"Dayton" Pumps

Full Data Free!

A copy of our latest catalog showing the complete line of Dayton Water Systems will be gladly sent you. Pin the coupon below to your letterhead and mail it to us—today!

B. A. 12
THE DAYTON PUMP & MFG. CO.,
Dayton, Ohio, U. S. A.
NAME .....
ADDRESS .....
CITY..... STATE.....

Digitized by Google



INDUSTRY'S IMPREGNABLE DEFENSE AGAINST DECAY

"R. I. W." products are a guard, an impregnable defense, ranged between Industry's millions of invested capital and the driving forces of blind destruction.

Throughout the world, whether on the steel frame of a Manhattan skyscraper, the machinery of a sugar mill in Cuba, or a foundation embedded in oozing shale, an "R. I. W." protective coating bears the brunt of slashing rain, damp rot, biting acids, and blistering sun.

Whatever Industry's problems, no matter how exacting its test, these technical paints, varnishes and waterproofing compounds, meet every requirement—their value gauged in super-protection, money saved, usefulness unimpaired.

New problems demanding special remedies are continually being solved by "R. I. W." Engineers. If, in the wide range of "R. I. W." products there is not one that meets your specific needs, special research will evolve it for you.

Consult Sweet's Catalog for Specifications

TOCH BROTHERS

Established 1848

Technical Paints R.I.W. *Waterproofing Compounds*

443 FOURTH AVENUE • NEW YORK

Remember It's Waterproof

KOSMOS PORTLAND CEMENT · KOSMORTAR EASY TO SPREAD



Building of Eli Lilly Co., Indianapolis
Robt. Frost Daggett, Architect
Leslie Colvin, Contractor
Van Wert Company furnished Kosmortar and Kosmos Portland Cement

MEETING the DEMANDS of BUSINESS

WHEN business builds, the cost of the work and the time required to complete it, are important considerations. Use of Kosmortar in many important business structures, such as the one illustrated above, is evidence that it furnishes architects and contractors with a means of meeting these demands.

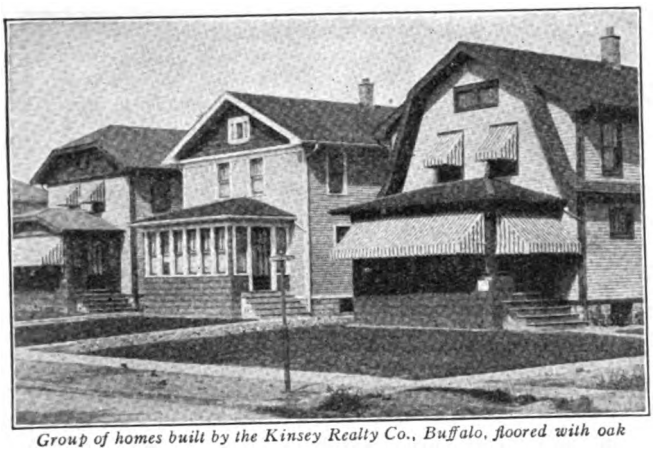
The Ideal Cement for Masonry.

Kosmos Portland Cement Co.
Incorporated
Sales Offices: Louisville, Ky
Mill: Kosmosdale, Ky.



KOSMORTAR
A MASON'S CEMENT

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Group of homes built by the Kinsey Realty Co., Buffalo, floored with oak

Specifications call for

Oak Floors

"Sold before completion!" 256 houses in Buffalo, erected and sold in 1923; 300 in 1924, by the Kinsey Realty Co. This company attributes its growing and continued success to the policy of providing sound investment value in addition to comfort and attractiveness in the modern homes it builds. It is significant that the floors throughout are OAK.

Permanence—Beauty

Oak has individuality, and character. Its beauty is Nature's own, and improves with age. Its neutral coloration blends with woodwork and furnishings of whatever period. Best of all, oak is a permanent floor, and never requires replacement. Easily kept in perfect condition, and saves housework.

Free literature

We will supply you with illustrated literature to show prospects. Also technical booklets for your use, with grading rules, standard measurements, proper handling, laying and nailing, etc.



Mail this coupon

OAK FLOORING BUREAU
841 Hearst Building, Chicago

Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

Name .....

Address .....

City ..... *State* .....

YOU TOO

Can Make MORE MONEY With the

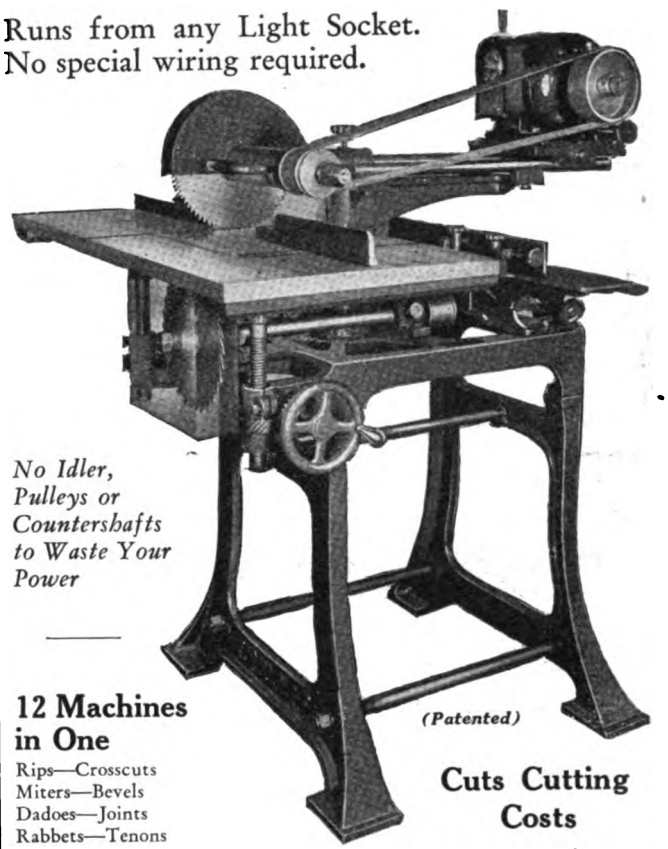
"BEAVER"

Nationally known for Economy

Complete—Sturdy—Portable—Combination

WOODWORKER

Runs from any Light Socket.
No special wiring required.



No Idler, Pulleys or Countershafts to Waste Your Power

(Patented)

12 Machines in One

Rips—Crosscuts
Miters—Bevels
Dadoes—Joints
Rabbets—Tenons
Bores—Mortises
Ploughs—Grooves
Sands, etc.

Cuts Cutting Costs 80%

Take advantage of our liberal time plan and pay for the "Beaver" out of its savings.
You will find it the best investment you ever made.

HUTCHINSON MFG. CO.
Dept. B.A., Norristown, Pa.

Please send particulars about the "Beaver" Wonder Woodworker.

Name .....

Address .....

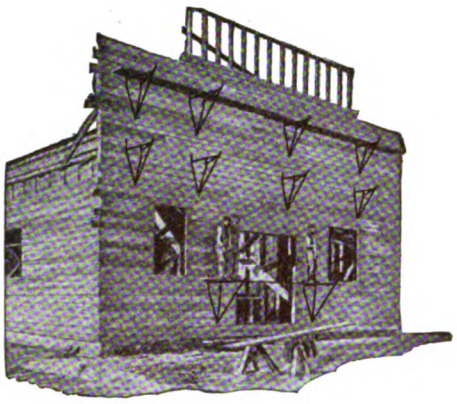
.....

Kind of Business .....

We also manufacture larger Combination Woodworkers—4" and 6" Jointers — 16" Band Saw — Saw Table with Gasoline Engine.

Write for Catalog

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"UP SHE GOES"

No trouble, fuss, lost time or wasted lumber. The job goes up quickly and the scaffold grows with the building if you use

Reliable Scaffold Brackets

Patented Oct. 4, 1910

No holes to plug after they are removed

These brackets are saving time and money—making bigger profits—for builders all over the country. The day has gone by when wooden scaffolds can be used, if the contractor expects to meet competition successfully.

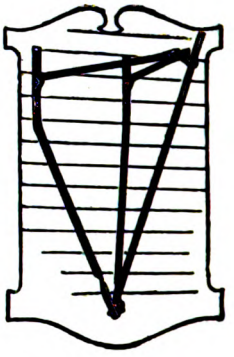
With Reliable Brackets, strong, safe scaffolding can be erected in ten minutes. They can be taken down in less time. Used on any type of building—frame, brick, stucco.

Reliable Brackets are good for years and years of continual use. We know builders who have had them on the job for seven years without a cent for repairs.

Let us send you a set on approval C.O.D. Look them over. See for yourself what time savers they are before you pay a penny. *Write for our catalog and price list.*



Reliable Scaffold Bracket Folded



Elite Manufacturing Company

Dept. B. A. Ashland, Ohio

Builders and contractors are making money with the AUTOMATIC floor surfacing machine

You can build up a profitable side line with the Automatic Surfacer and still hold your job if you wish. Many builders and contractors are earning from $40 to $50 a day with the Automatic . . . the result of 16 years' manufacturing experience.



The AUTOMATIC in operation. All moving parts entirely enclosed.

THE Automatic requires no previous experience to operate.

The Automatic is the only machine taking up all the dust on the forward cut with new vacuum nozzle. It can be relied upon to surface perfectly ALL wood floors, hard or soft, new or old, rough floors or the finest parquetry, as well as cork, rubber fibre, linoleum, etc. All working parts enclosed.

Free trial. Part down—balance easy payments, which the machine will earn for you.

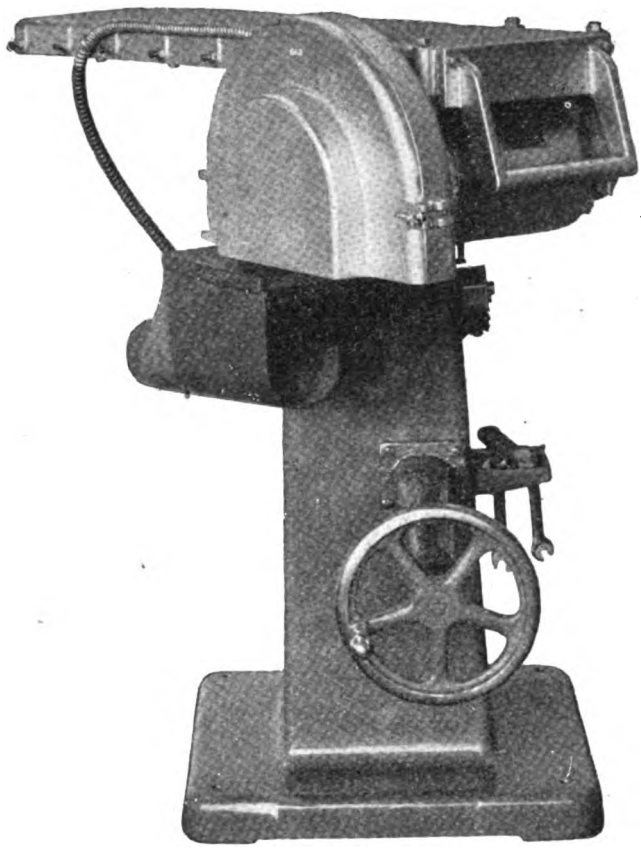


The little Automatic Surfacing Machine (on table) is a wonder for removing varnish from desk tops, counters, etc., or for all sorts of new work. Is small, compact and made of aluminum—easily handled.

WAYVELL CHAPPELL & CO.

42-44 Jackson St. Dept. X Waukegan, Illinois

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NEW!

A straight line cut-off saw built for speed production. Head swivels to 45 degrees. Cuts at any angle.

If it's speed and accuracy in cutting off you want, here's a saw that will turn out more work per day at less cost than any other you can buy.

FAMOUS

Straight Line Cut-off Saw

The head moves forward and back along a rigid track — insuring hairline accuracy in cutting. A single turn of a lever releases the head, permitting it to be swiveled to 45 degrees in either direction, making mitre cuts at any angle.

The head will take dado heads up to 2 inches—making the machine useful for all kinds of dadoing, grooving, and rabbeting,—either straight or at any angle—with greater ease and speed than any other saw.

Contractors and carpenters will find the machine especially valuable in cutting 2 x 4's and other heavy timbers, as the head has an unusually wide vertical adjustment and the 5-h.p. 3000-r.p.m. direct-geared motor handles the heaviest work with ease.

If you want to cut costs send for illustrated bulletin with complete information. Address Dept. 312.

The Sidney Machine Tool Company
Sidney, Ohio

From Edison's Plant

Edison Portland Cement Co.

400 Fifth Ave., N.Y. City
at 40th St.

September 23, 1926.

Mr. George B. Hopper,
President,
Van Guilder System,
15 East 40th Street,
New York City, N.Y.

Dear Mr. Hopper:-

I am glad indeed to advise you of the success that we had in using Van Guilder double wall forms in the construction of the change-house at our Cement Mill, New Village, N.J.

This building is one story, 40 ft. by 80 ft. by 12 ft. high, concrete building, built for the purpose of providing the workmen with lockers, shower-baths, toilets, etc., and was constructed by our men without any previous experience in using your forms. Each of the double walls are 6" thick, having the usual air space of 2½" and the roof was poured with concrete using metal forms, and covered with tar and tar-paper.

The cost of building the walls, as far as I can determine, was approximately two-thirds the cost of constructing monolithic concrete by our own forces. The windows and doors were framed and cast right into the wall as it was being poured, and we find that the building is exceedingly cool in summer time, and while we have not yet used it in winter, we believe it will be very easily heated.

Our management at the mill like the method of construction so well that practically all of our wall construction in the future for buildings and curtain walls, will be done with your forms.

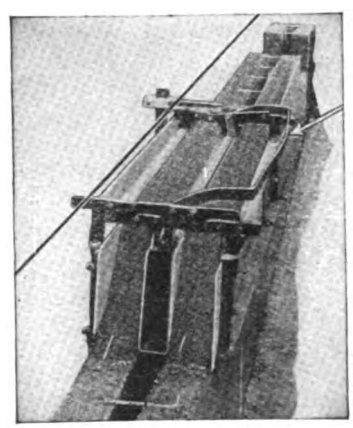
The writer also built a two car garage for himself at his home in South Orange, 20 x 20 ft. inside walls being 10 ft. high and having webbs 3" thick. This work was done by two Italian boys who have had some little experience in concrete work, but they had no difficulty whatever in putting up the walls in about 4 days without other help, again casting the windows and doors into the wall as they proceeded. The interior of the garage has been covered with a coat of cement and sand and the outside is stuccoed, and altogether, it is a beautiful as well as a solid job.

The cost to me was a little over half the cost quoted by contractors for concrete construction, and I certainly can recommend this type of construction.

Very truly yours,

W. D. Goss
VICE PRESIDENT AND
GENERAL MANAGER.

Read This Expert's Opinion On Wallbuilder Construction



The Van Guilder Wallbuilder shown in place on wall is filled with semi-wet concrete and tamped. Lever indicated by arrow is then lifted, which collapses the center core and expands the outside plates, thereby freeing the concrete on all sides. The Wallbuilder is then instantly slid forward. A foot of wall a minute.

Van Guilder System Concrete Bldg.

15 East 40th St. **New York**

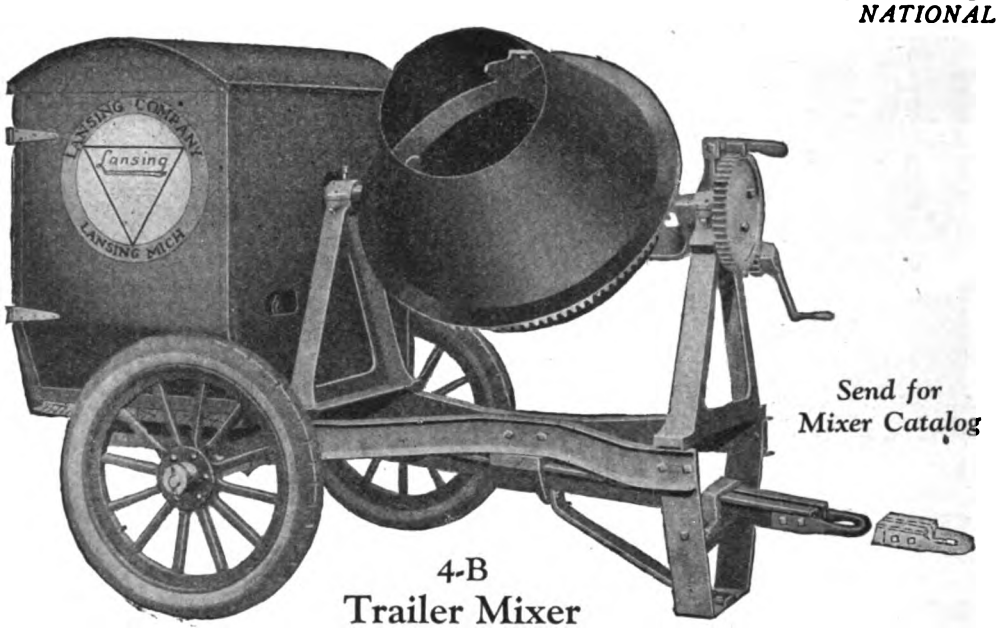
Tell me what the VAN GUILDER WALLBUILDER can do for me. Local costs are—Cement....per bbl. Sand.....per cu. yd. Aggregate.....per cu. yd. Labor.....per hr.

Name .....

Address .....12-B.A.

ASK YOUR DEALER

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Send for Mixer Catalog

4-B
Trailer Mixer

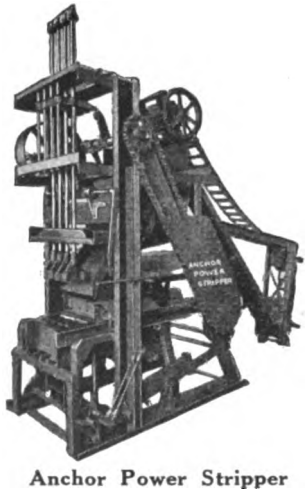
When You Buy a Mixer—Buy the Best—Buy from a Company that not only gives you unexcelled materials and workmanship, at a fair price, but gives an unexcelled distribution service. Lansing-Company's 45 years of manufacturing and world wide distribution experience will give you this service.

LANSING-COMPANY

Factory: Lansing, Michigan. *Branches:* Boston Kansas City Minneapolis Chicago New York Philadelphia Cincinnati

---

ANCHOR



Anchor Power Stripper

A self-contained unit for the manufacture of plain concrete blocks in quantity. The power elevator and feeder are extra equipments which materially speed up production.

Low Cost Concrete Building Units

Anchor Stripper Blocks—plain building units of any required size, shape and design of air space—are most economically made on the Anchor Power Stripper.

Hand labor is reduced to a minimum and a maximum production is achieved per dollar invested in equipment.

There's an Anchor equipment just suited to your needs. Brick, block and building tile machines with a wide range of output.

Start with a single unit —add as you grow

For Complete Information Write

Anchor Concrete Machinery Co. Adrian, Michigan

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Make $25.00 to $40.00 a day Winter and Summer-

No Dull Seasons
No Lay-Offs
Your Own Boss



Make up your mind today to write us in regard to this wonderful opportunity which the American Universal Floor Surfacing Machine offers you. It keeps the money rolling in during the winter months when the building business is often slack. It affords you an opportunity to become an American Floor Surfacing Contractor and make big money as well as create a permanent and profitable business that is all your own.

With an **American Universal** FLOOR SURFACING MACHINE

You can not only do the work which it would take six men to do by hand scraping, but you can do it much better and at the same time earn six men's pay.

WORK EASY TO GET

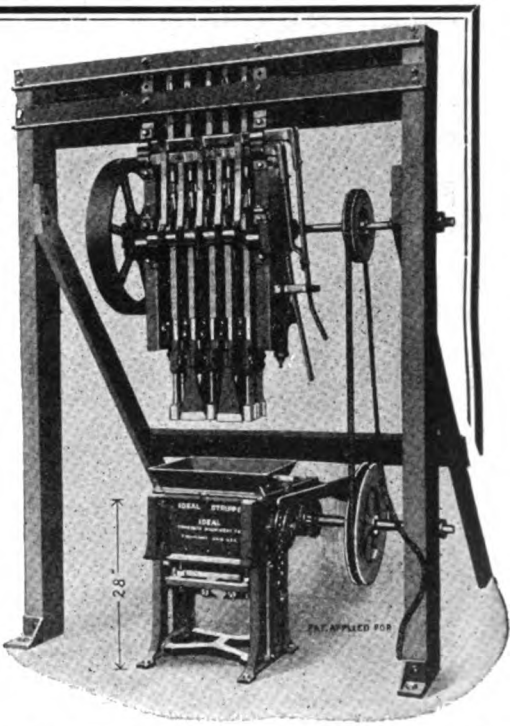
Every new floor has to be surfaced and every old floor resurfaced. You need no special training. Any man who is willing to work can make big money as an American Floor Surfacing Contractor. Write today and we will furnish you absolutely free full information in regard to this wonderful opportunity.

The American Floor Surfacing Machine Co.

514 SO. ST. CLAIR STREET — TOLEDO, OHIO

Originators of Floor Sanding Machines

"Winter Work is not New" Not Revolutionary not Untried



"We have been doing it in New York on big jobs for the last 23 years." So states J. Reid Kilpatrick, Vice President, George A. Fuller Co., N. Y.

Operate an

Ideal Vertical Stripper

all Winter and you'll find RESULTS more than warrant the work. You have 12 months' overhead; why not enjoy 12 months' income? And, too, you can keep your gang together and make up Block and Tile as you go along, corralling the BIG DEMAND of early Spring, because you are *ready*. Due to the P. C. A., winter work is increasing and more block will be needed this winter than ever.

IDEAL
TRADE MARK REG. U.S. PAT. OFF.

The Ideal Vertical Stripper offers you

(1) power stripping at no additional cost
(2) low, convenient offbearing height
(3) thorough tamping with the Ideal 10-Bar Tamper and many other advantages

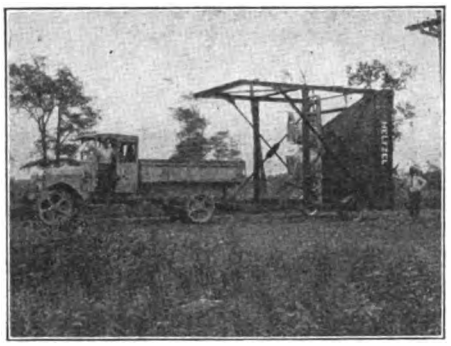
IDEAL

THE IDEAL CONCRETE MACHINERY CO.

5012 SPRING GROVE AVE. CINCINNATI, OHIO

TRADE MARK IDEAL REG. U.S. PAT. OFF.

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Hook on a Truck and Haul This Bin From Job to Job

The HELTZEL Agrabatcher Bin comes to you completely assembled with batchers in position and only the trailer wheels detached.

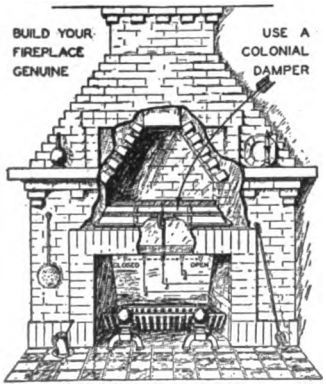
Tow it by truck to the set up at a speed of 15 or 20 miles per hour. Set it up with a crane and start the work.

The speediest and most accurate batchers ever built. One man with a single lever performs the complete operation of filling, cutting off, dumping the batch of sand and stone, closing the lower and opening the upper gates in less than 10 seconds.

Write for bin and batcher catalog.

The Heltzel Steel Form & Iron Co.
Warren, Ohio

HELTZEL



new!

FOR over twenty years, the Colonial Damper has been recognized as a product unequalled for its purpose. Now with the new Lever Arm Operating Device (patents applied for) you have a fireplace damper that meets every conceivable condition in design and construction. It will work right in any position: one, two or three courses above the opening or even higher with a longer rod. Gives perfect draft control. Operates easily. No key to mar the face of the fireplace.

Write for circular on Colonial Head with new Lever Arm Operating Device (Style G) and blue print showing common mistakes in fireplace construction. Sent free on request.

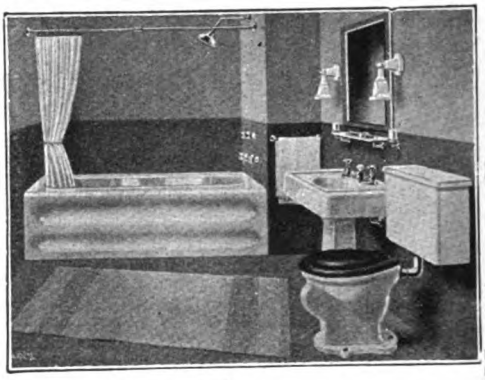
COLONIAL FIREPLACE COMPANY
4618 ROOSEVELT ROAD CHICAGO, ILL.

Colonial Head-Throat and Damper

Big Saving ON GUARANTEED Plumbing Heating and Water Works Supplies

Bath Room Outfits

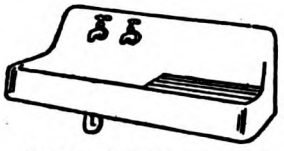
$58.25 up. For 38 years KAROL has sold products of the finest material and workmanship. We guarantee everything we sell.



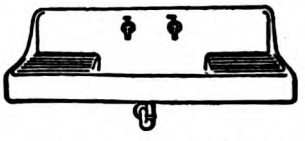
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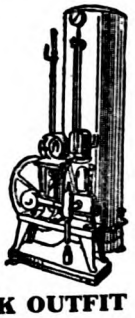
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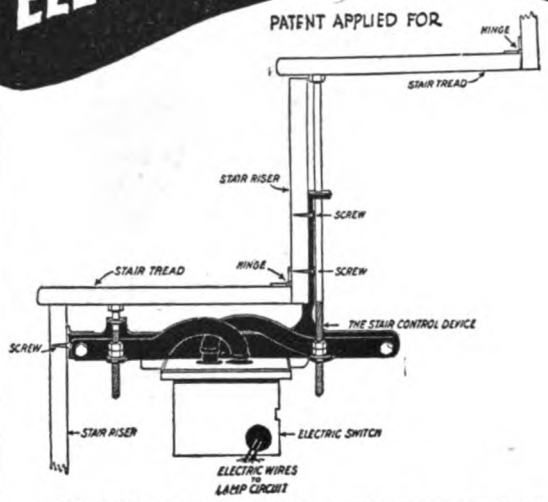
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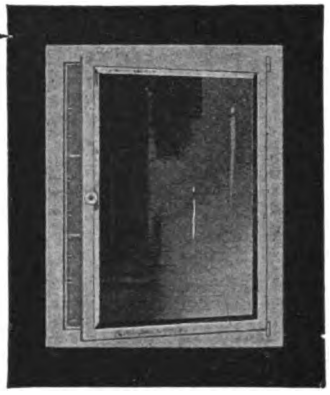
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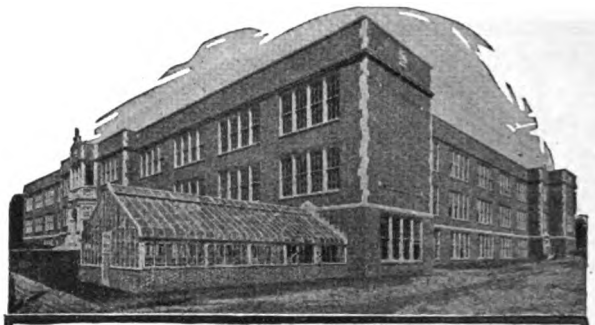


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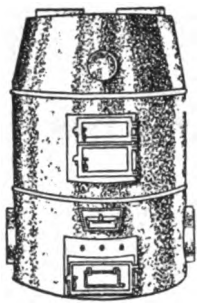


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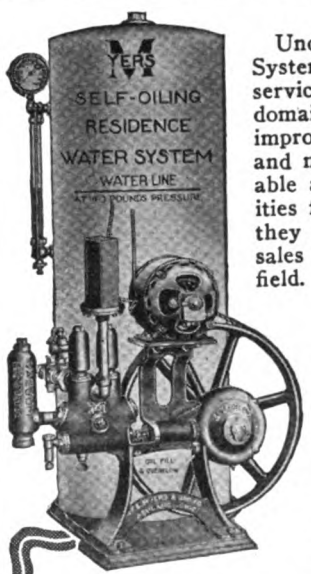
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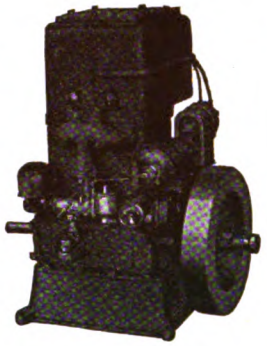
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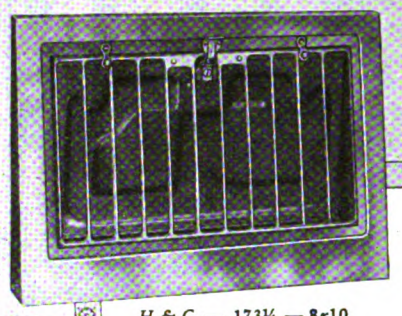
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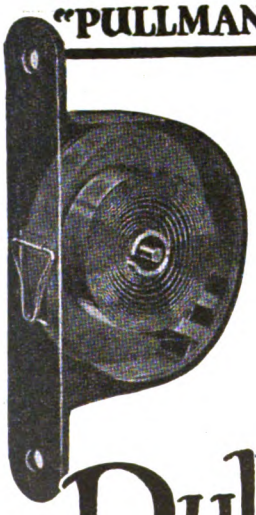
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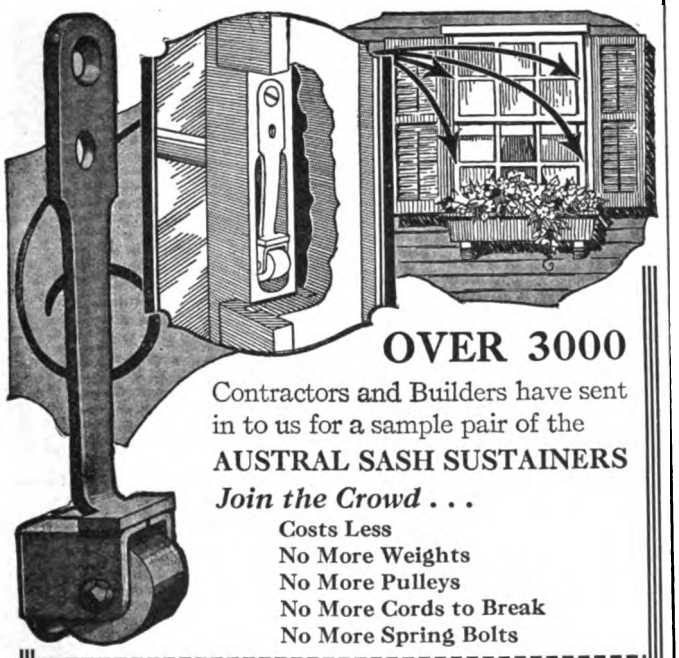
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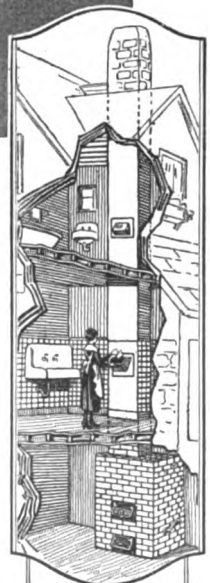
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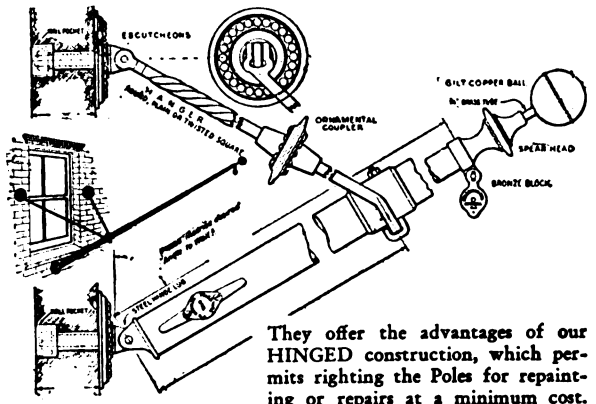
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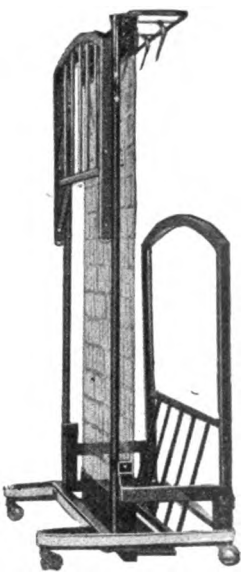
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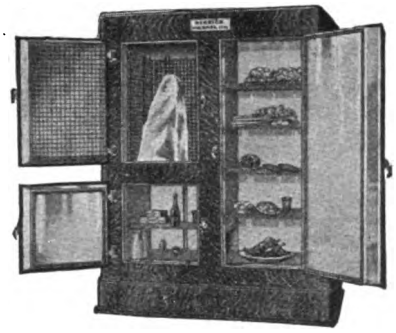
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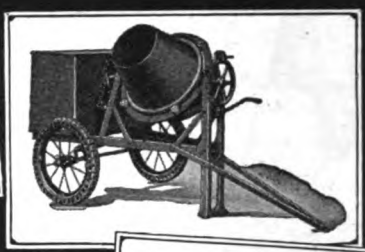


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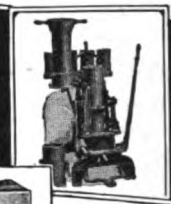
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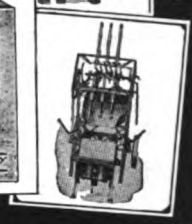


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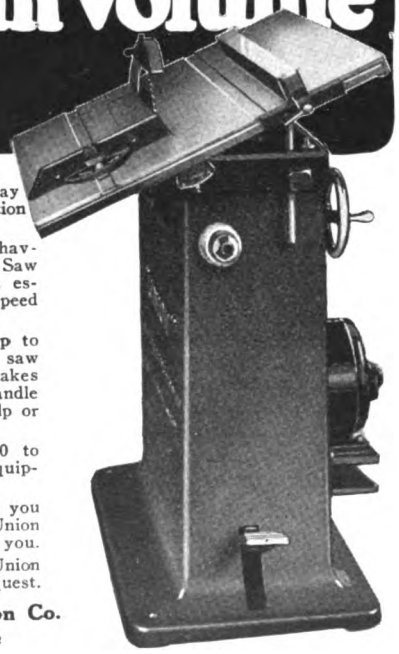


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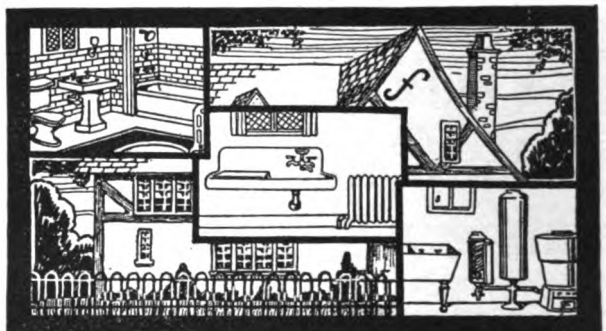
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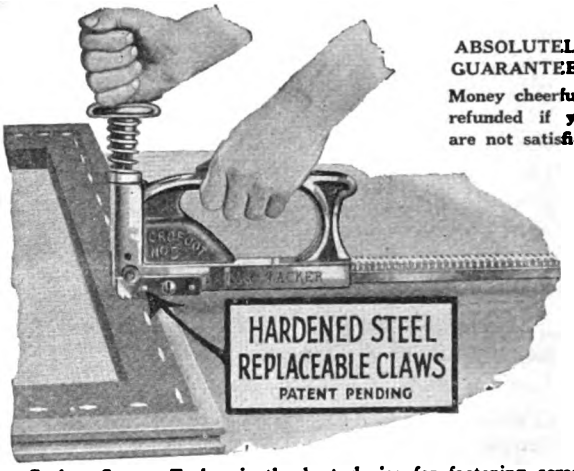
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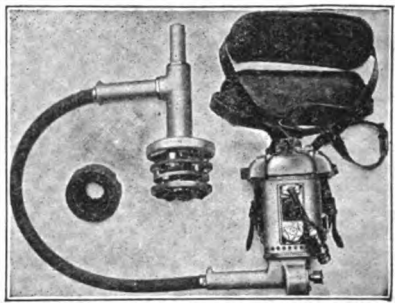
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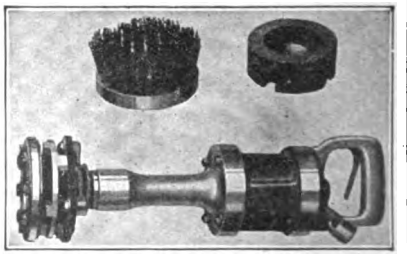
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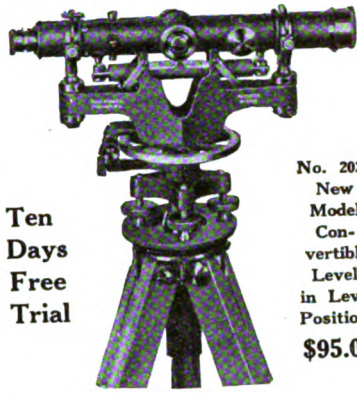


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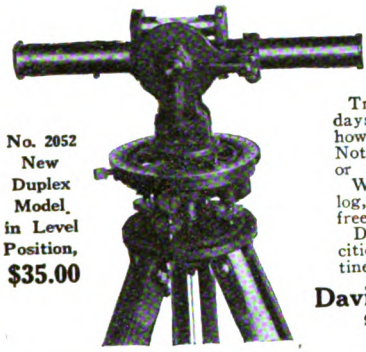
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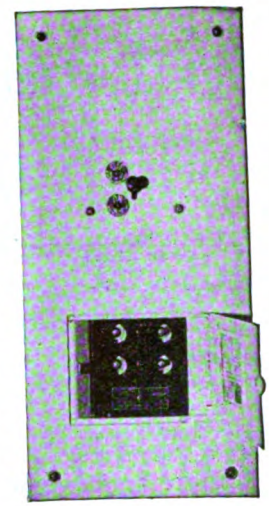
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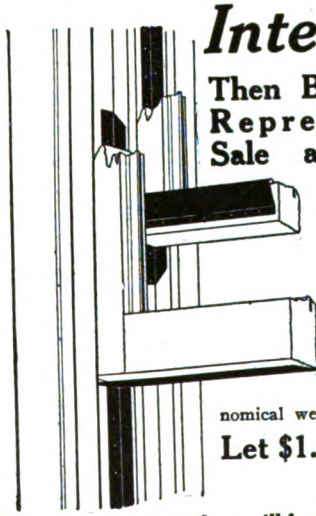
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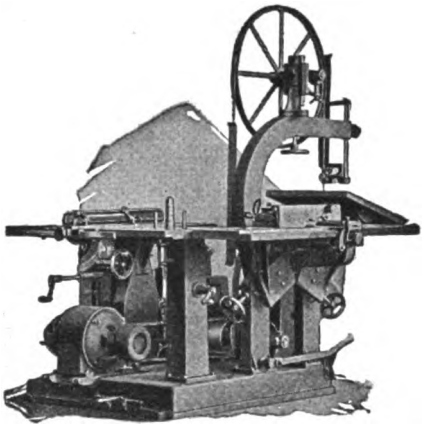
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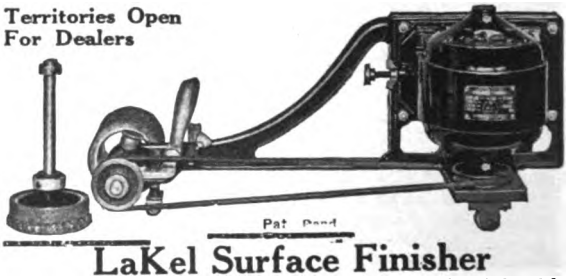
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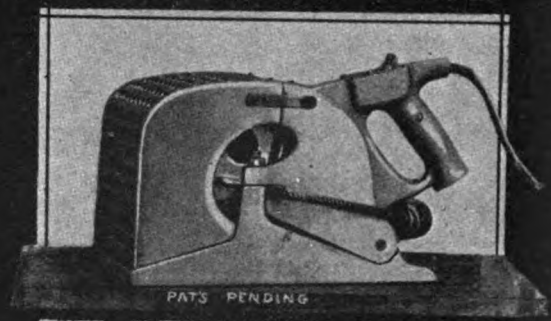
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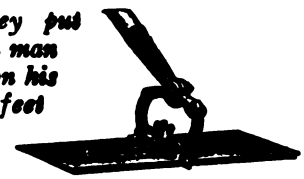
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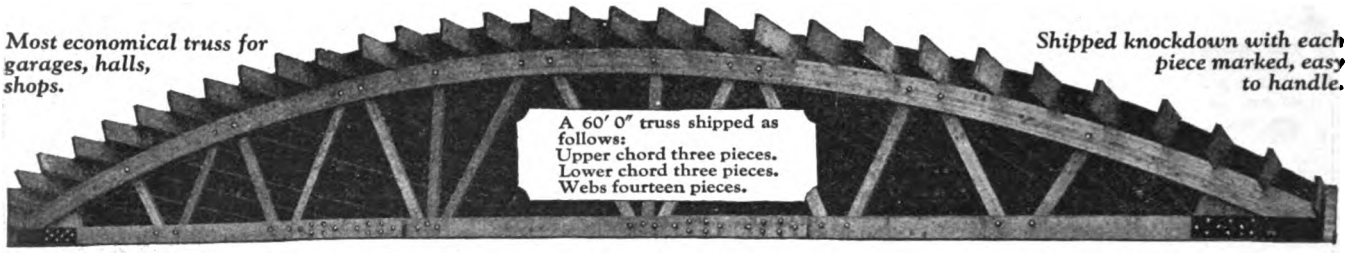
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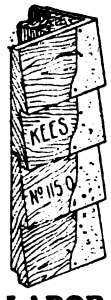
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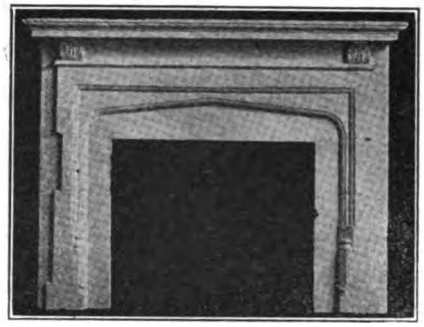
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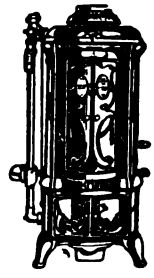
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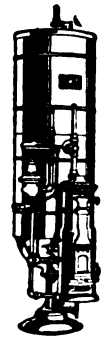
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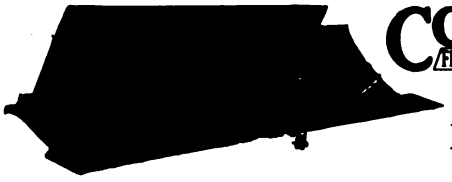
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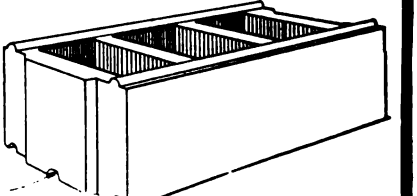


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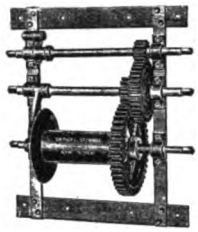


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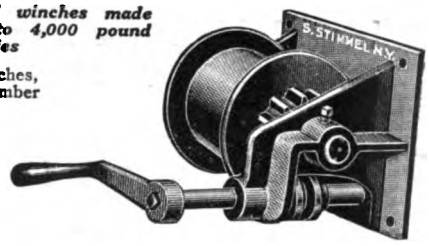
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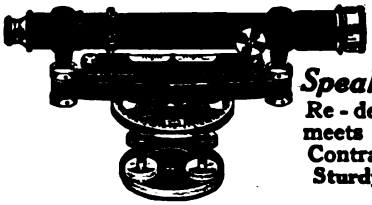
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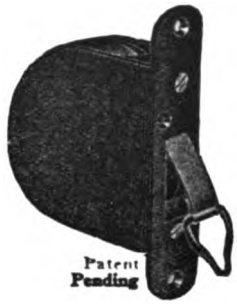
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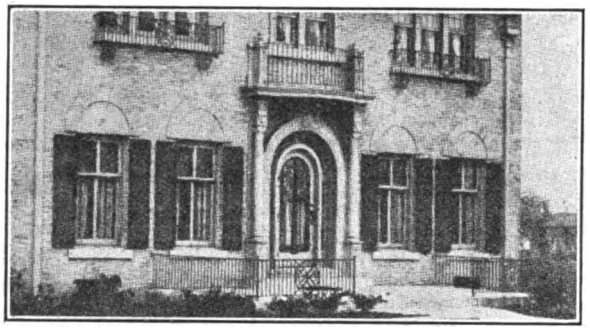
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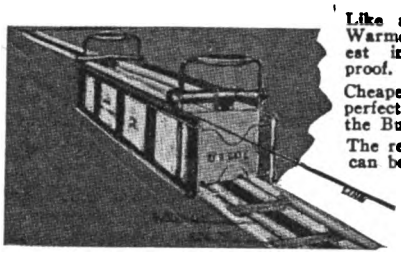
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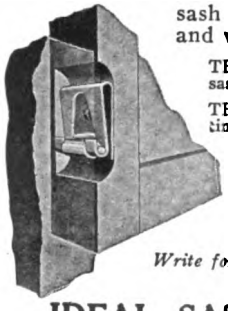
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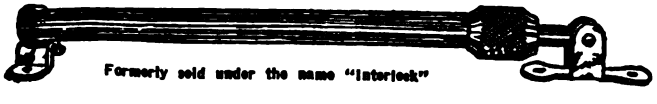
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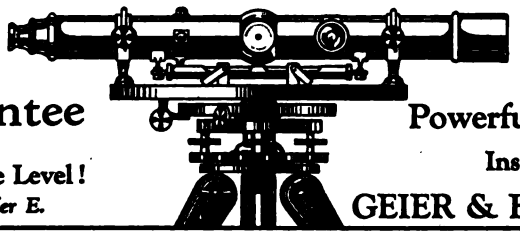
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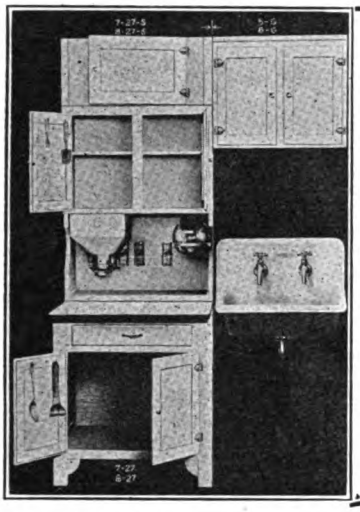
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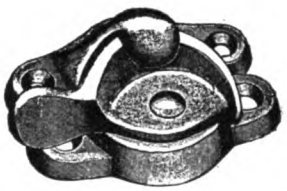
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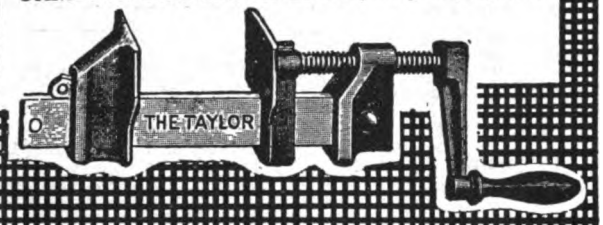
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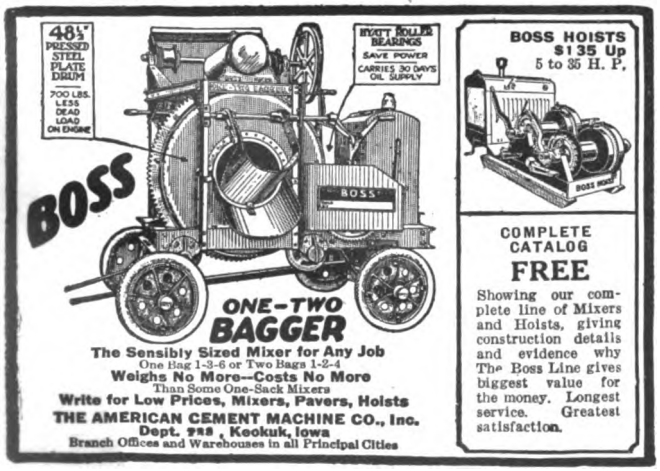
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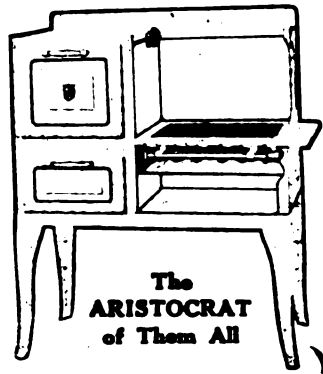
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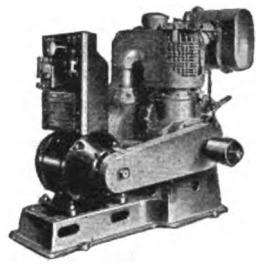
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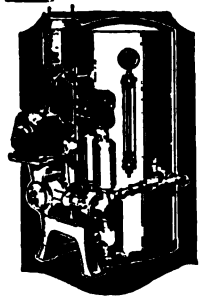
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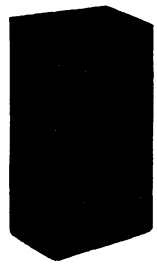
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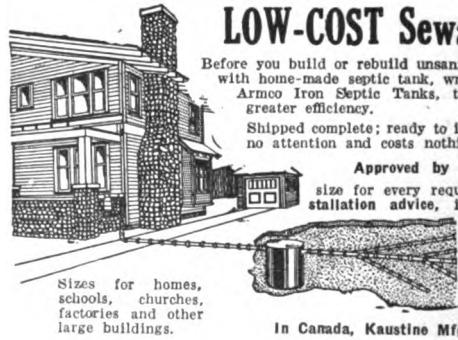
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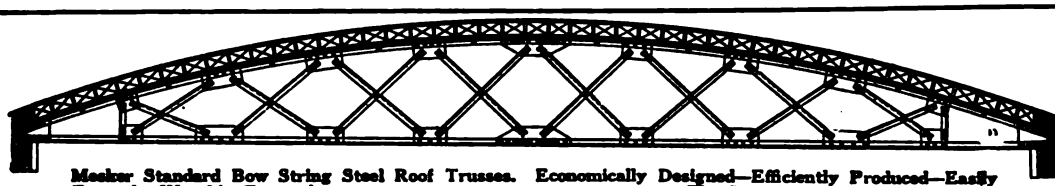
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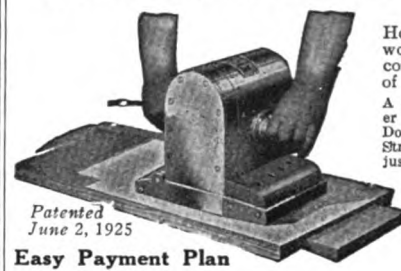
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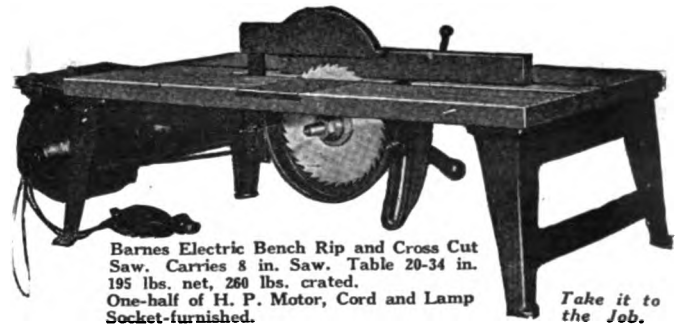
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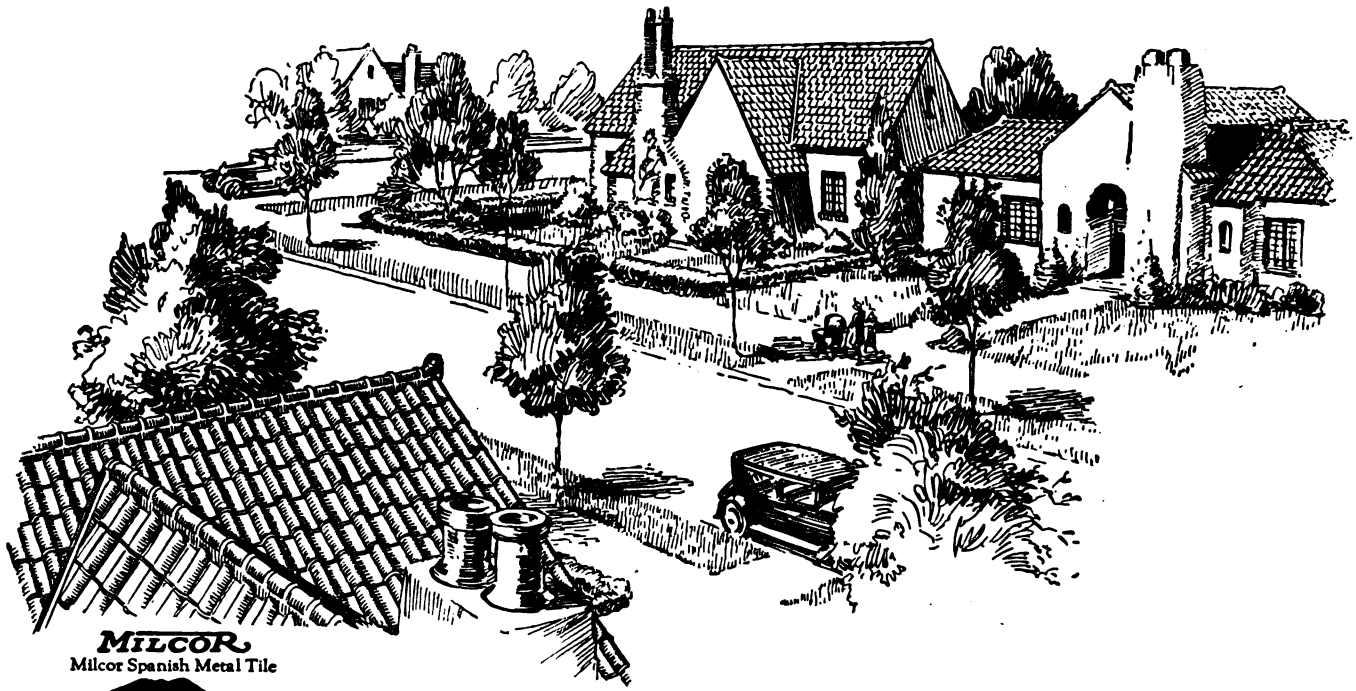
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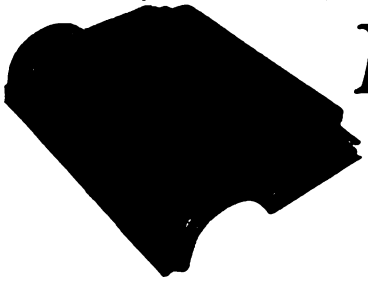
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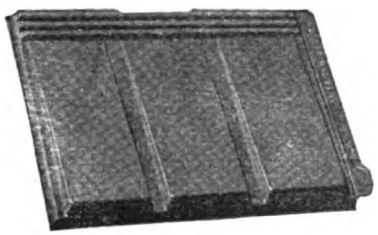
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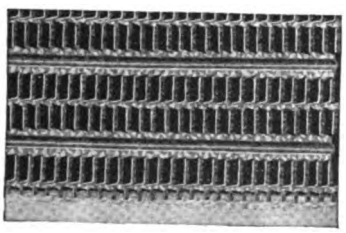
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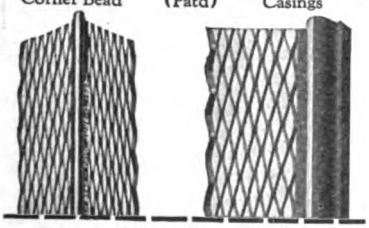
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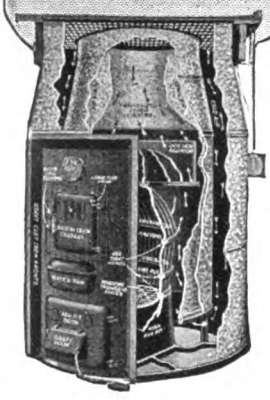
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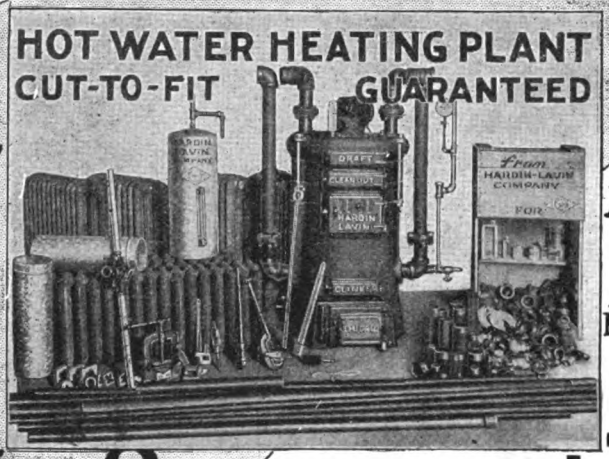
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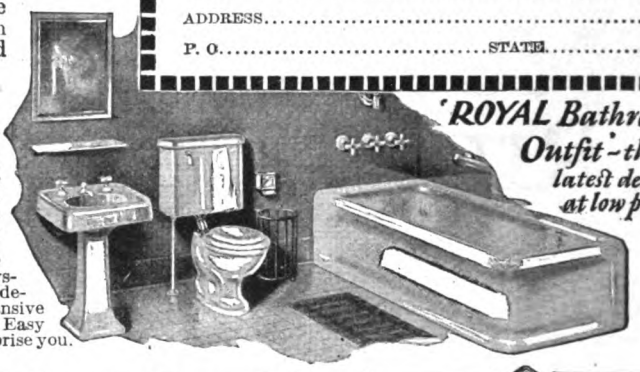
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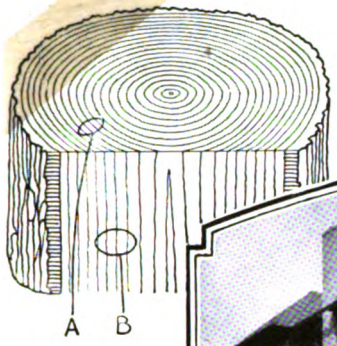
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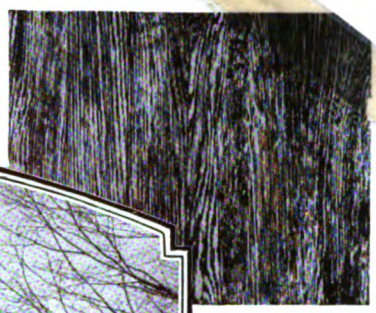
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